

[書類名]

[Document Type] Drawing

[図1]

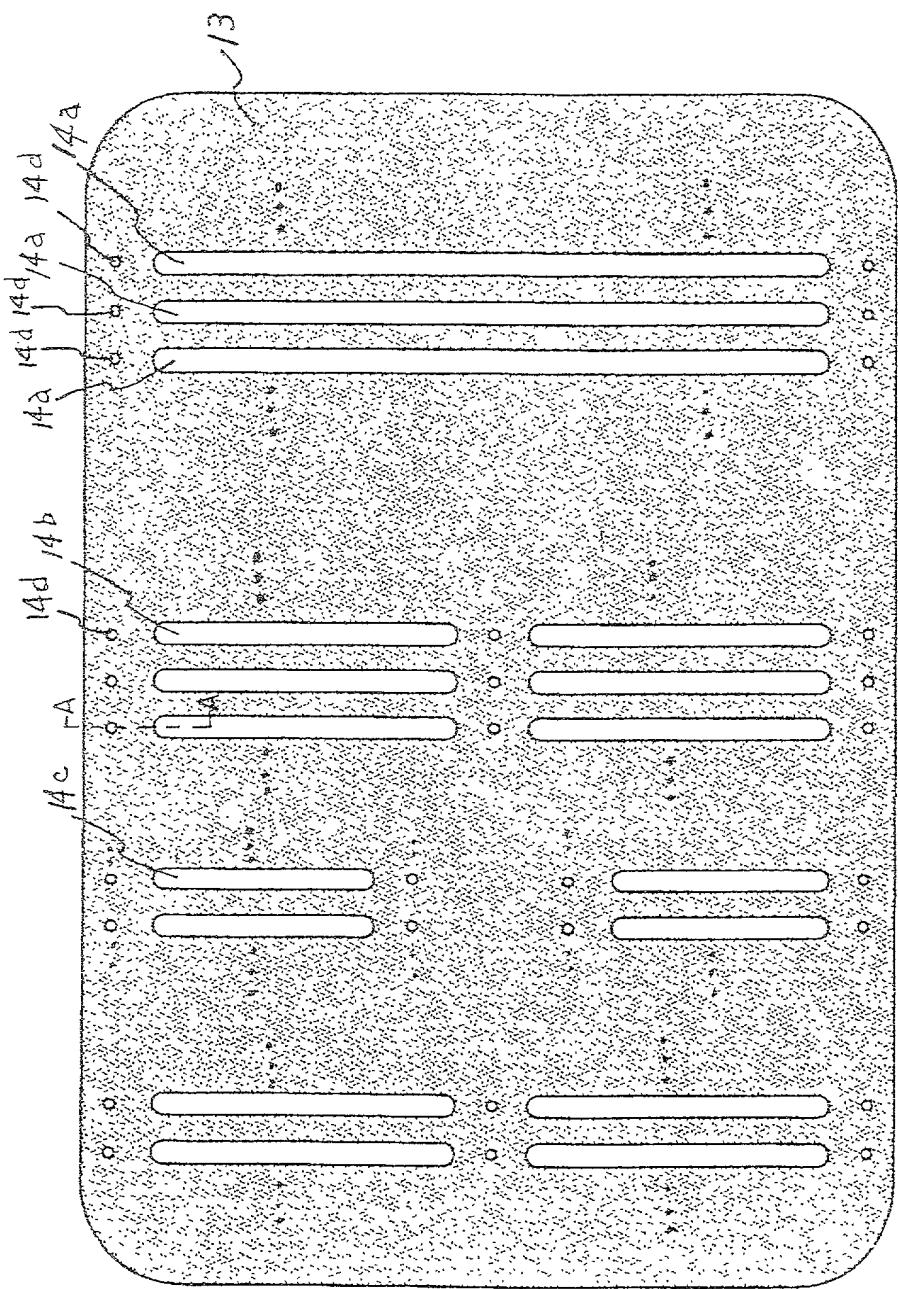


Fig. 1

図2+

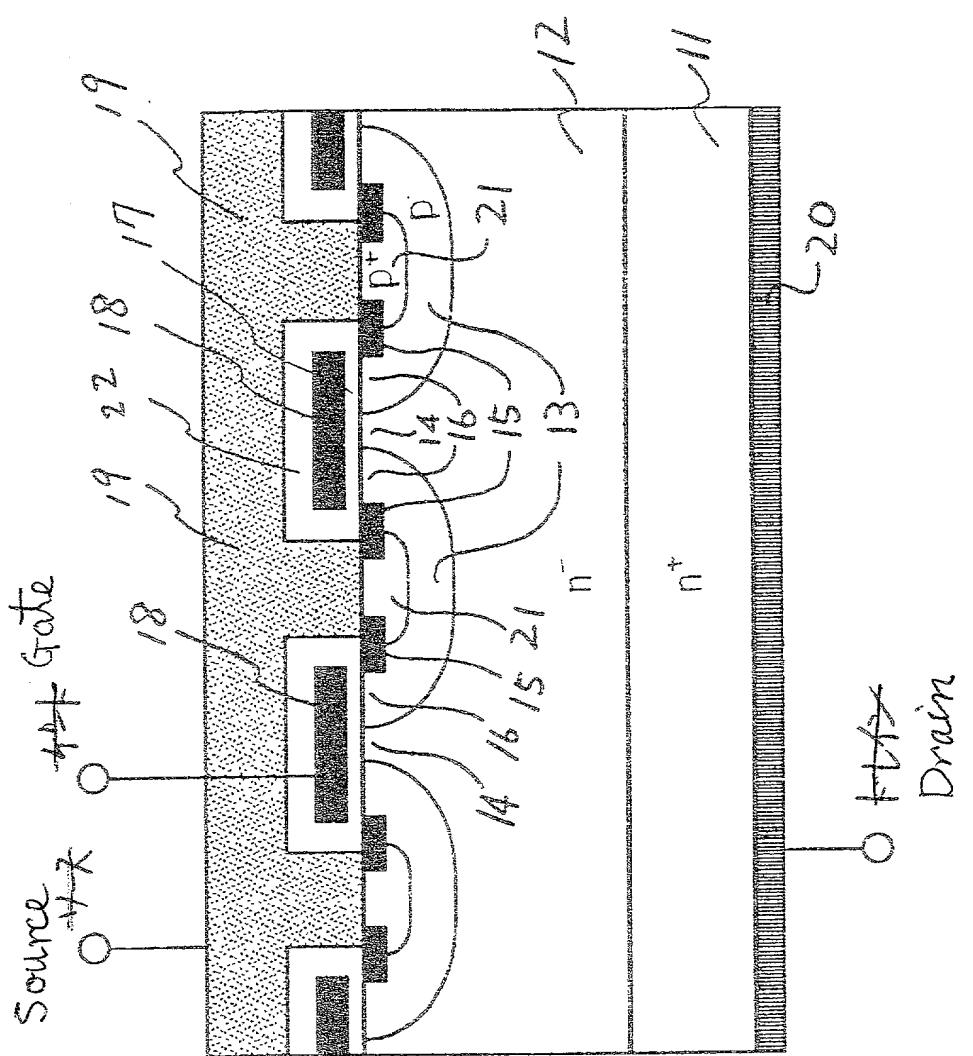


Fig. 2

図3

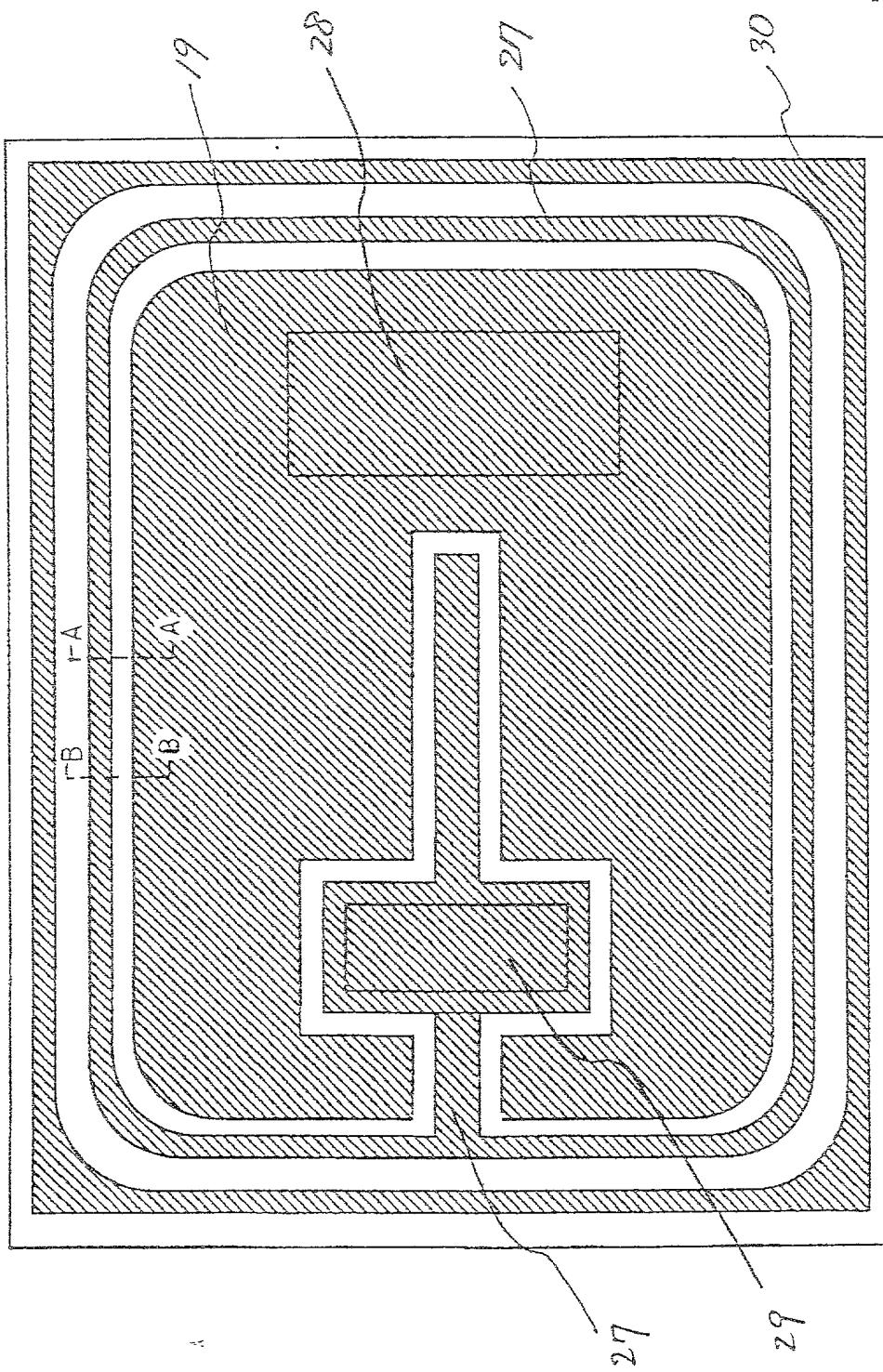


Fig. 3

図4

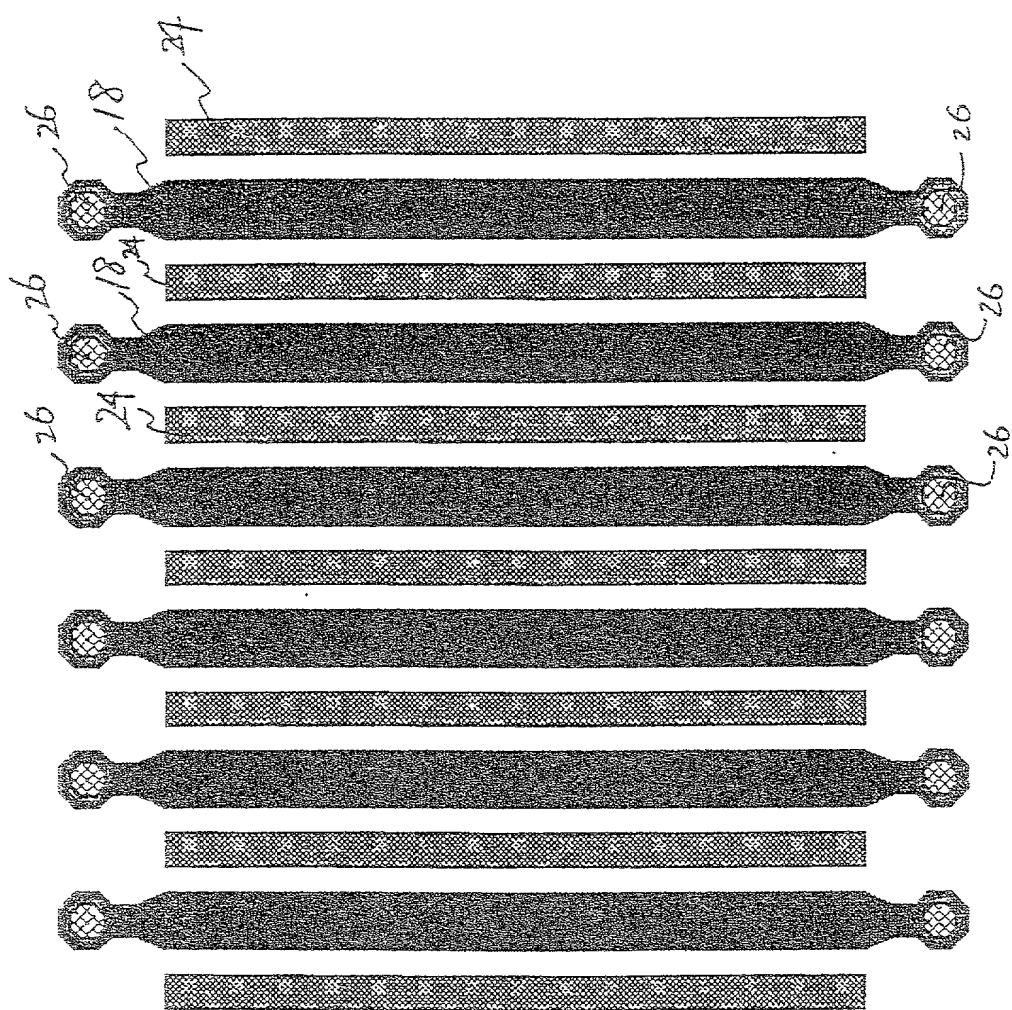


Fig. 4

[図5]

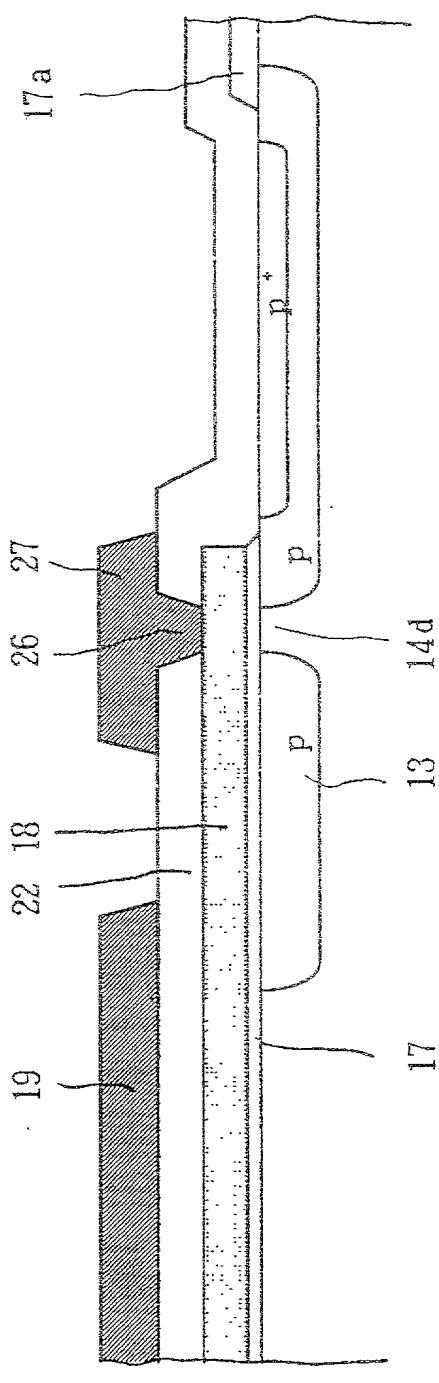
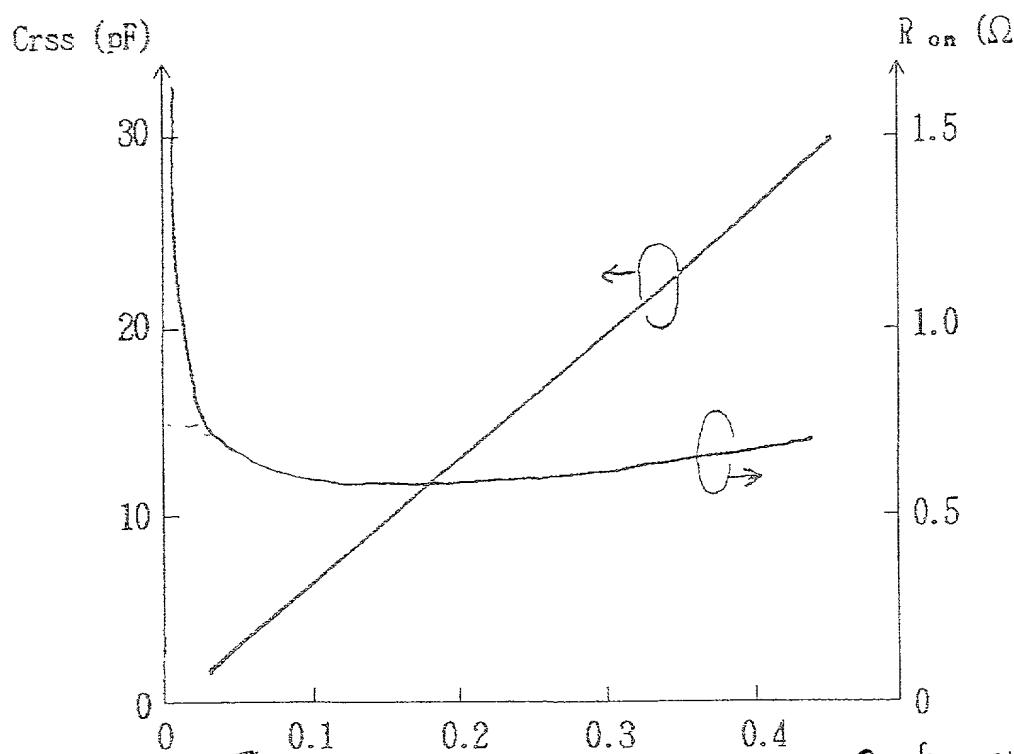


Fig. 5

【図6】

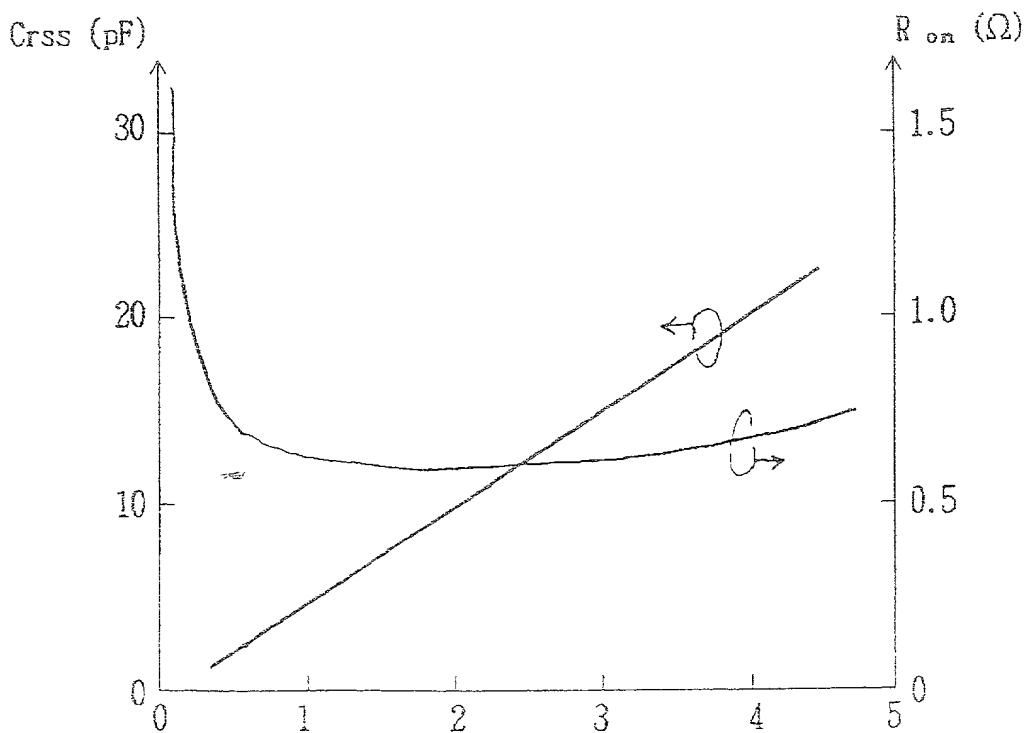
Fig. 6



n-p 表面領域 / p ウェル領域 表面積比率 - Surface area ratio  
 n-type surface region p-type well region

【図7】

Fig. 7



n-p 表面領域幅 ( $\mu m$ )  
 width of n-type surface region

図 8

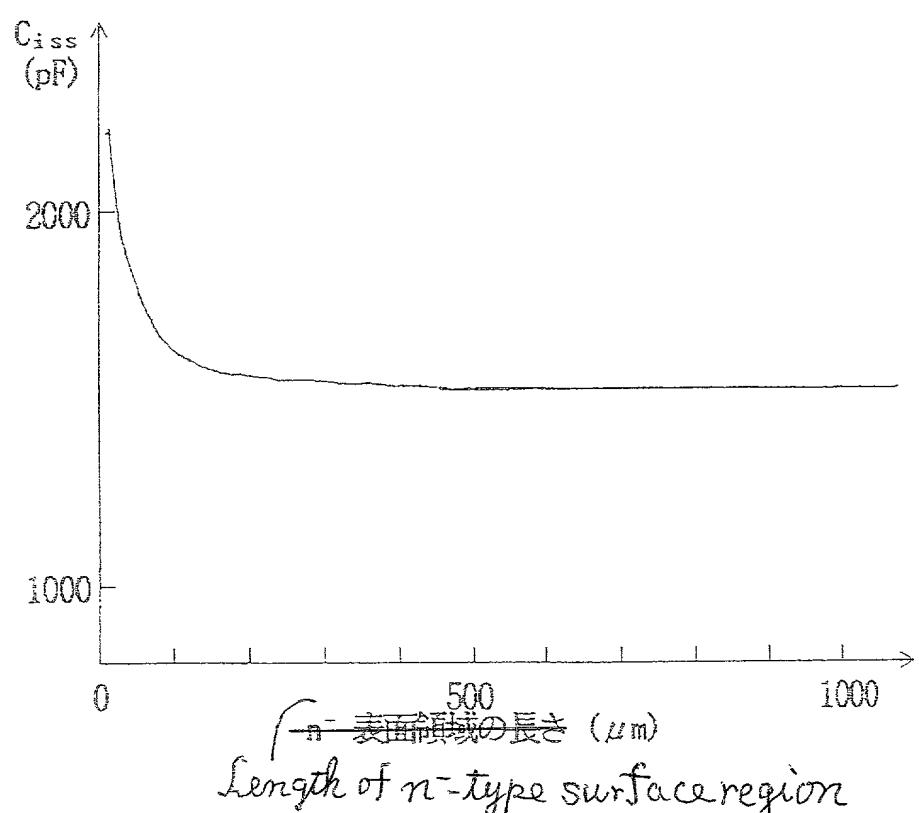


Fig. 8

図 9

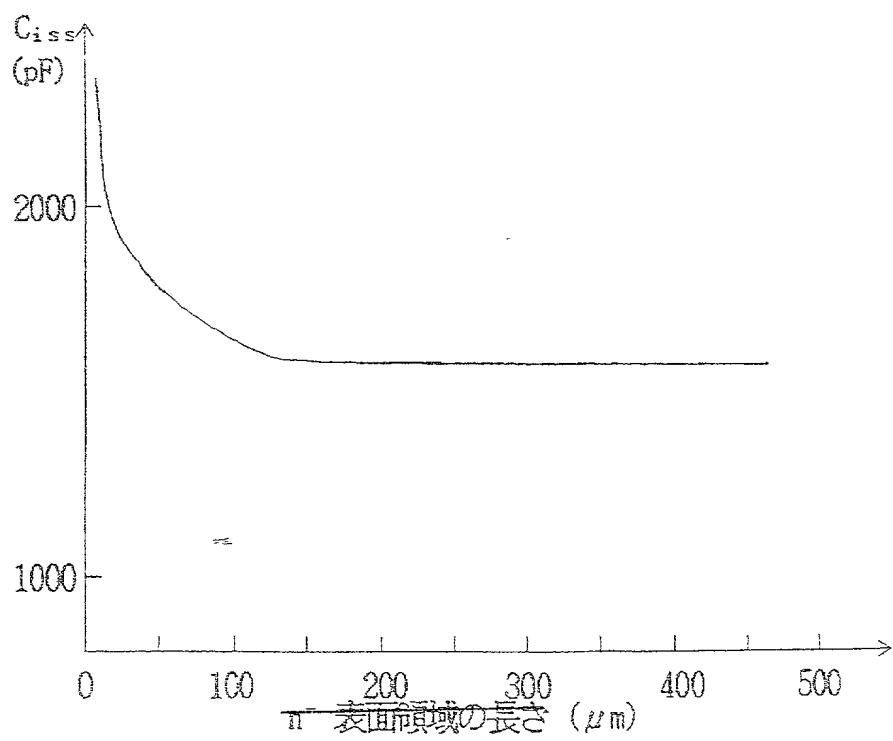


Fig. 9

[図 1-0]

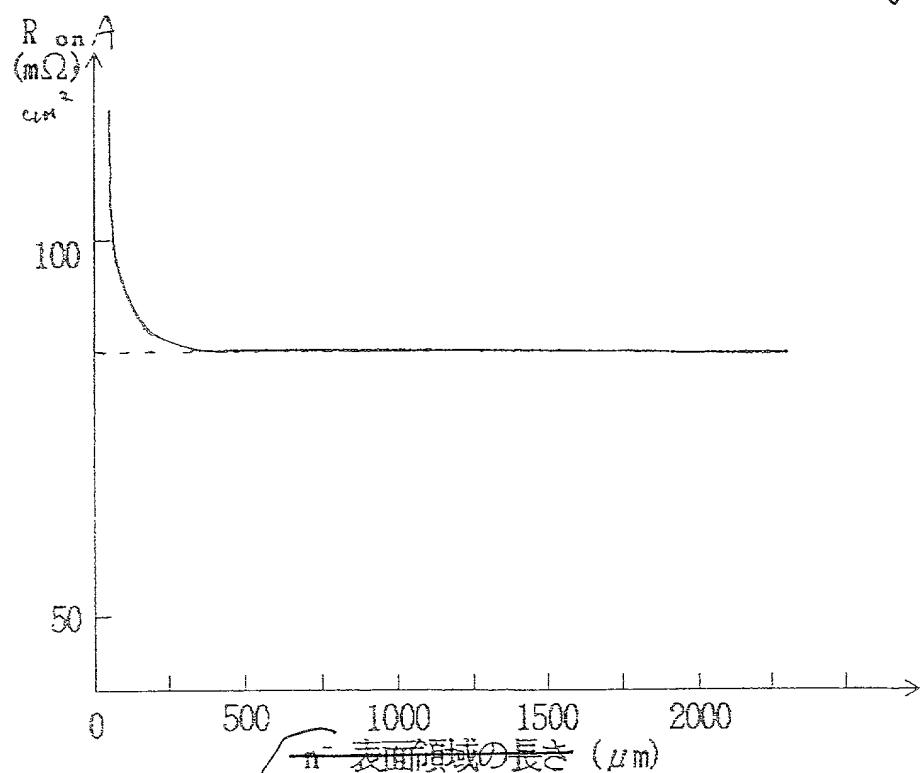


Fig. 10

[図 1-1]

Length of  $n$ -type surface region

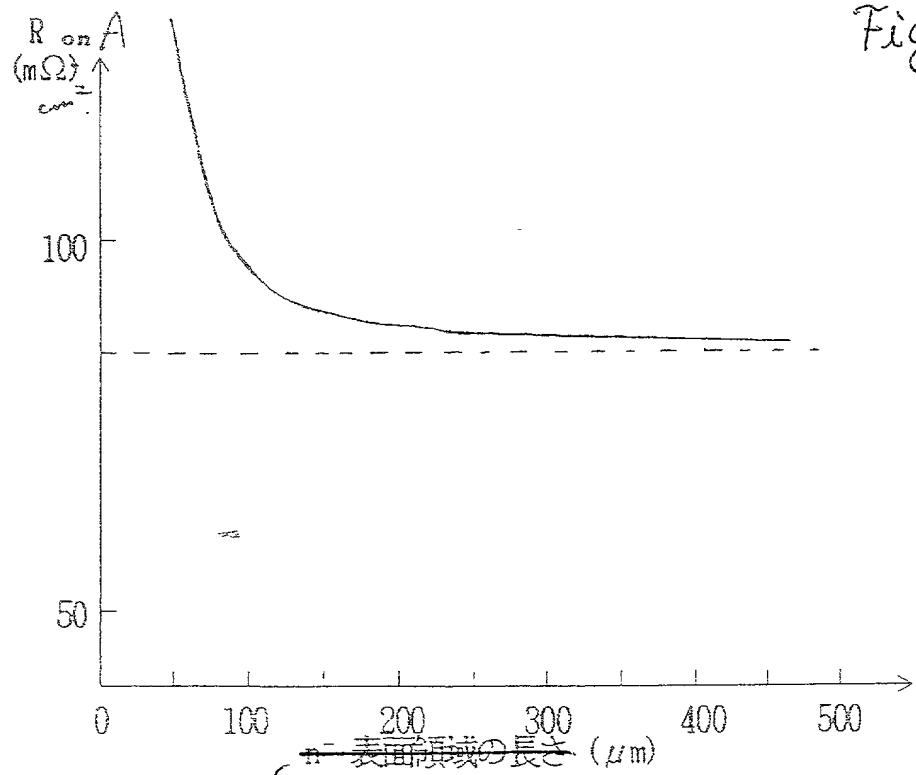


Fig. 11

Length of  $n$ -type surface region

[図12]

 $R_{onA}$  ( $\text{m}\Omega\text{cm}^2$ )

1,000

100

10

100

300

1,000

3,000

 $BV_{DSS}$  (V)Comparative  
examples

比較例

本発明  
実施例  
Embodiments  
of the Invention

Fig. 12

図13

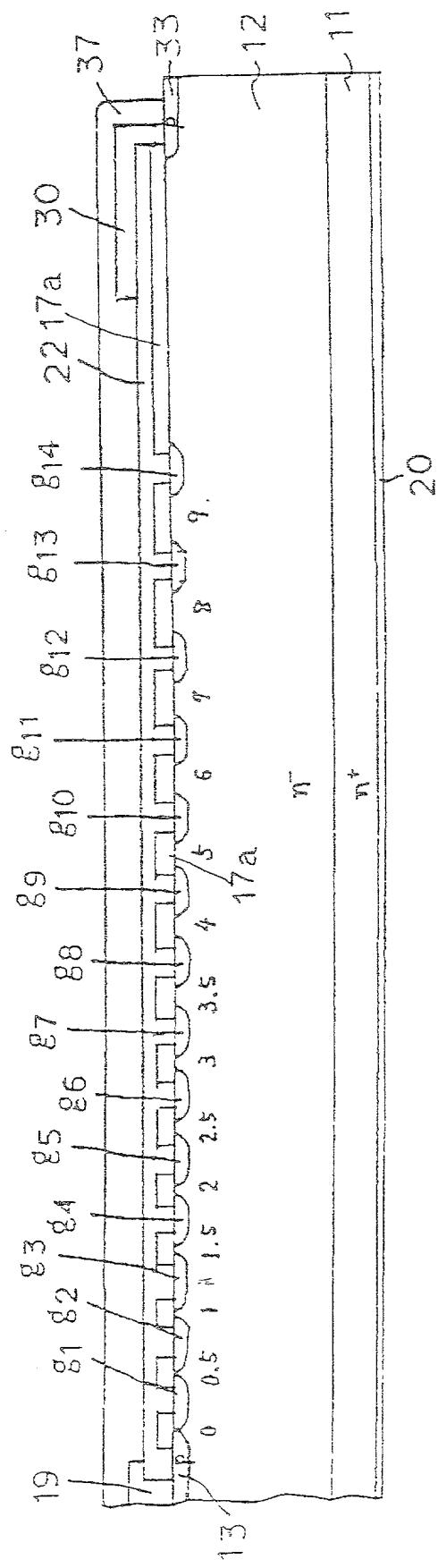


Fig. 13

図 14

Number n of the guard rings

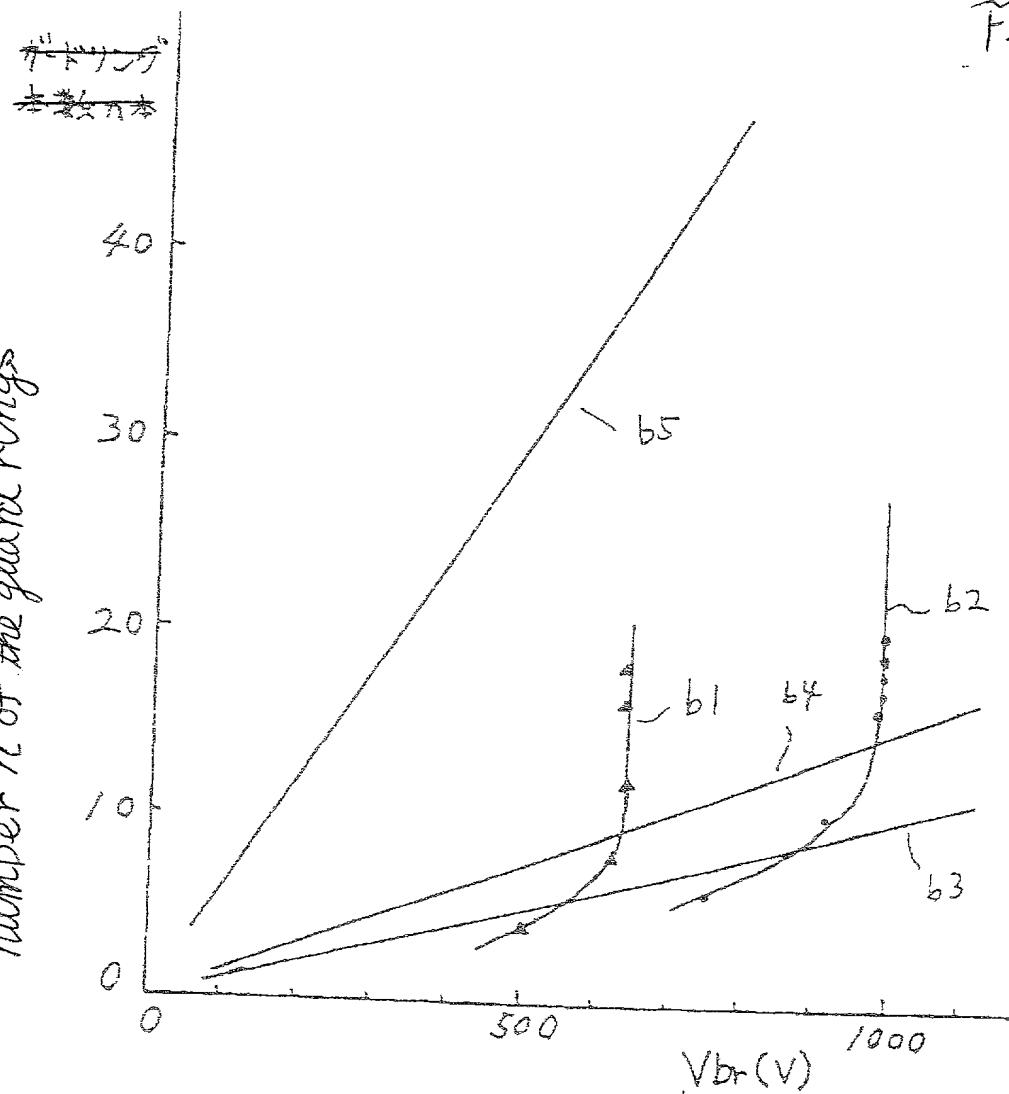
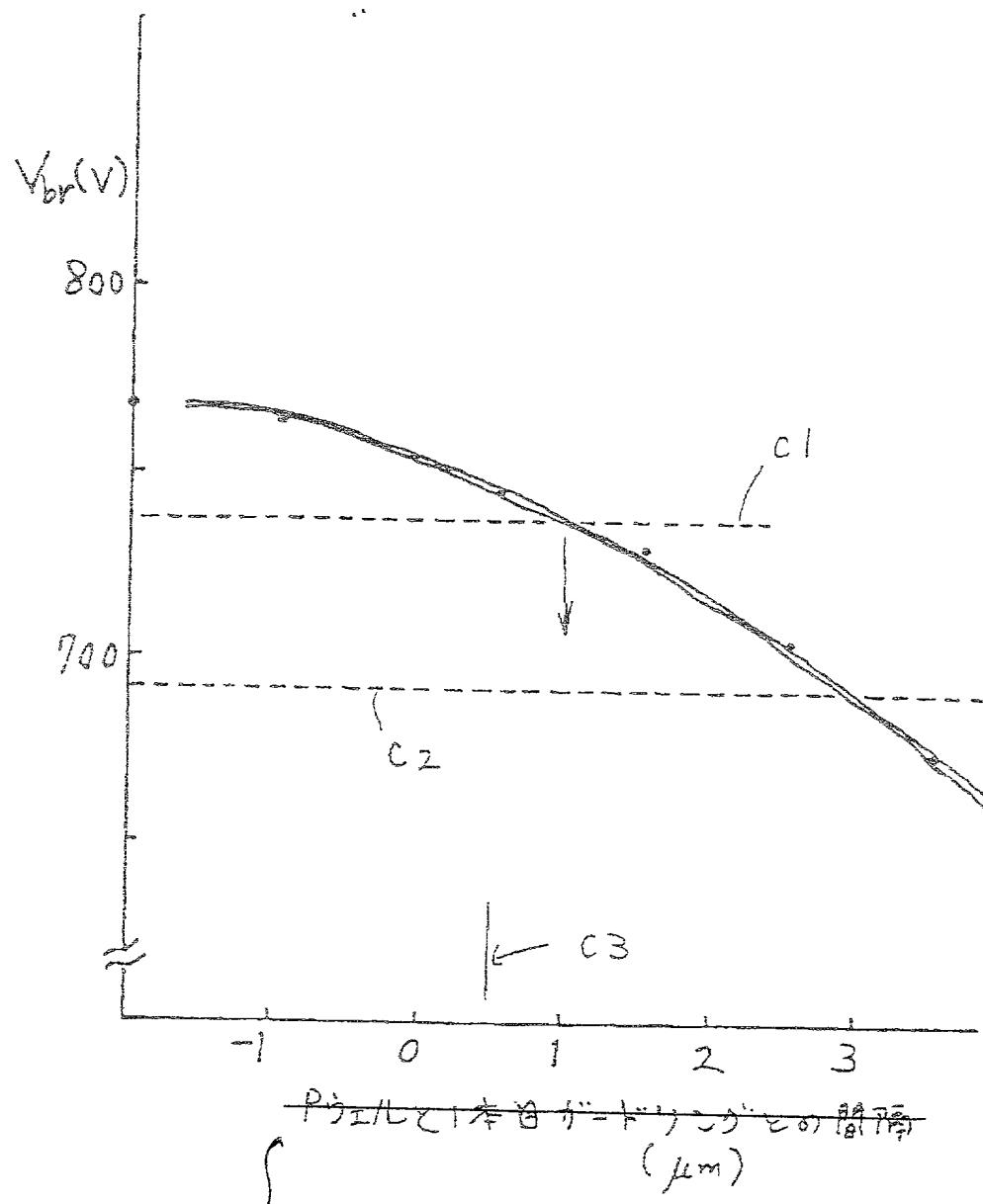


Fig. 14

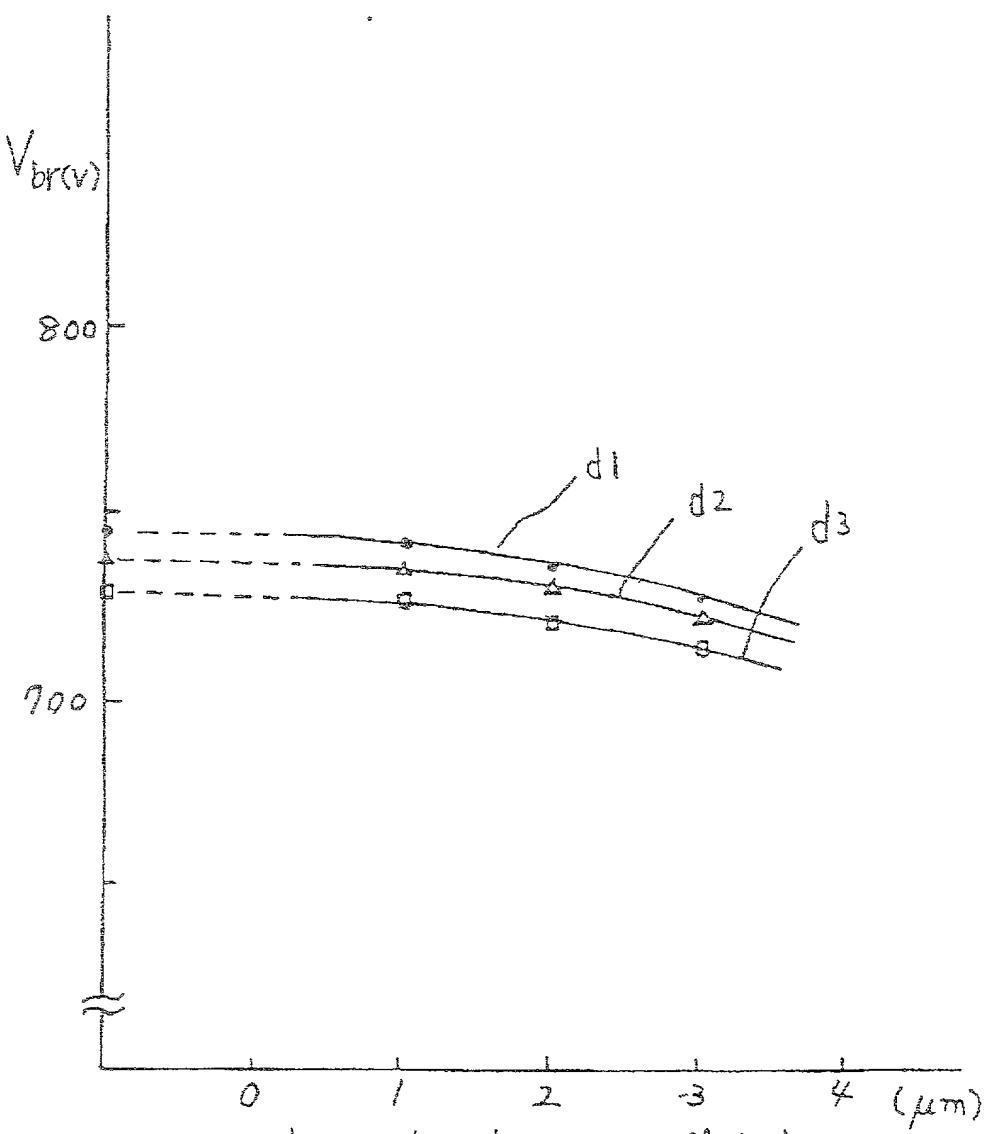
[図15]

Fig. 15



Spacing between p-type well region  
and first guard ring

[図 1-6]



1番目、2番目 + 3番目 + 4番目の間距離

Spacing between first and second guard rings

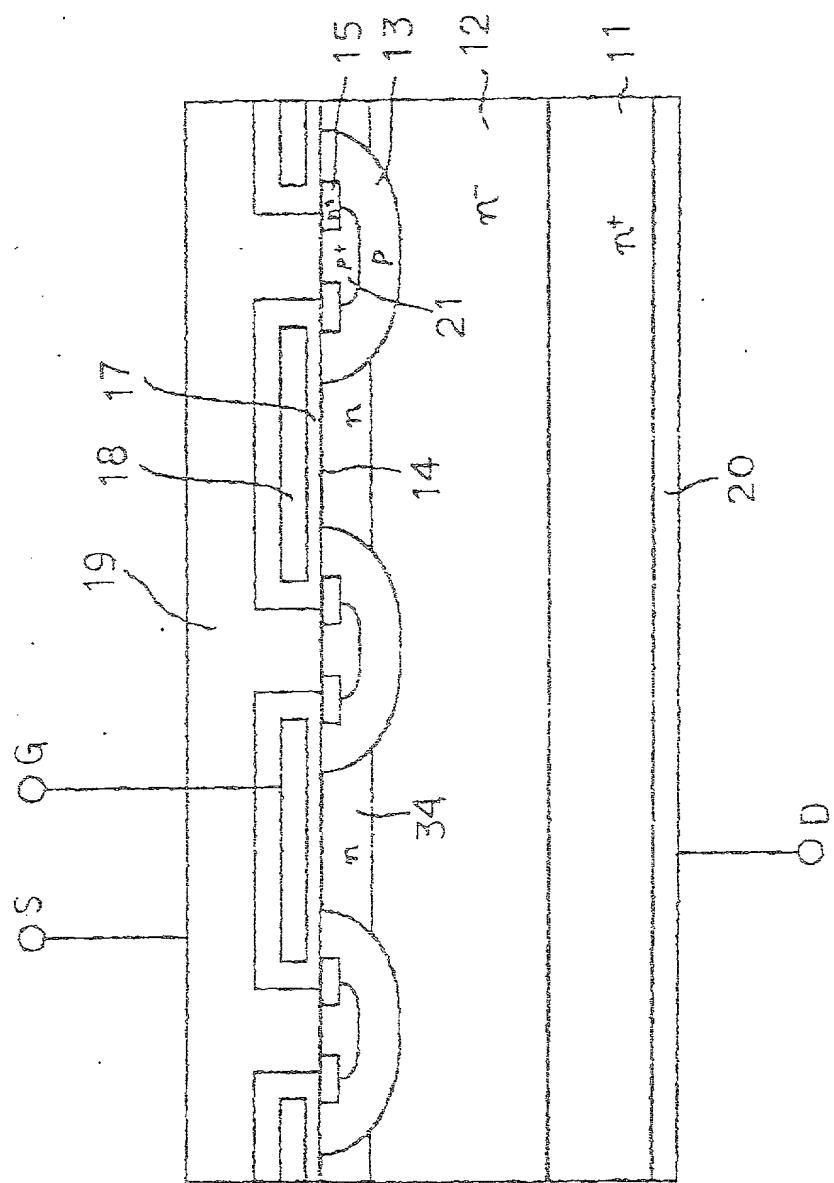
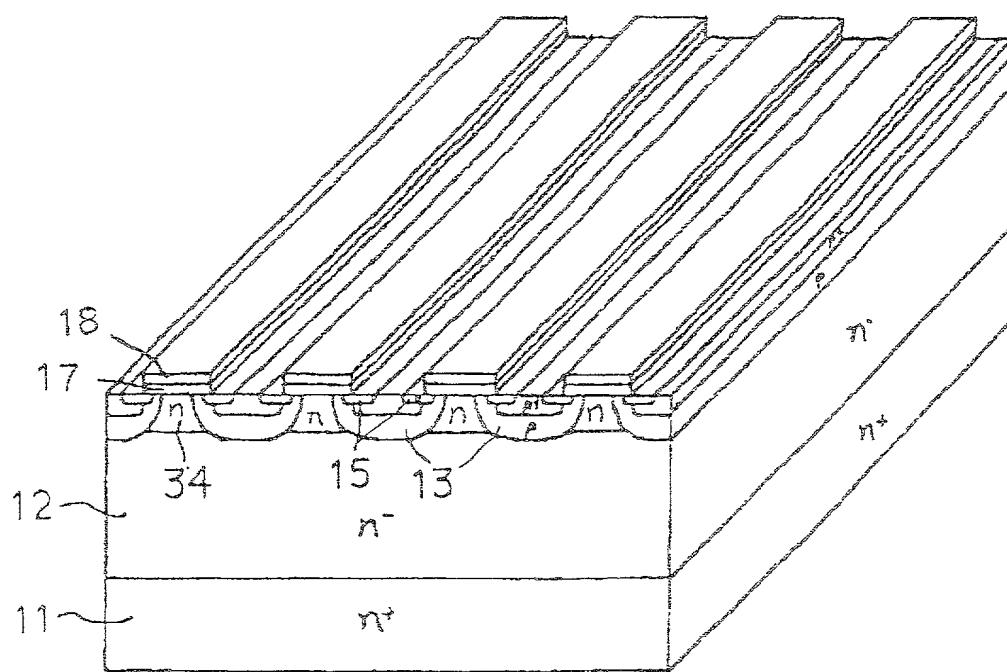
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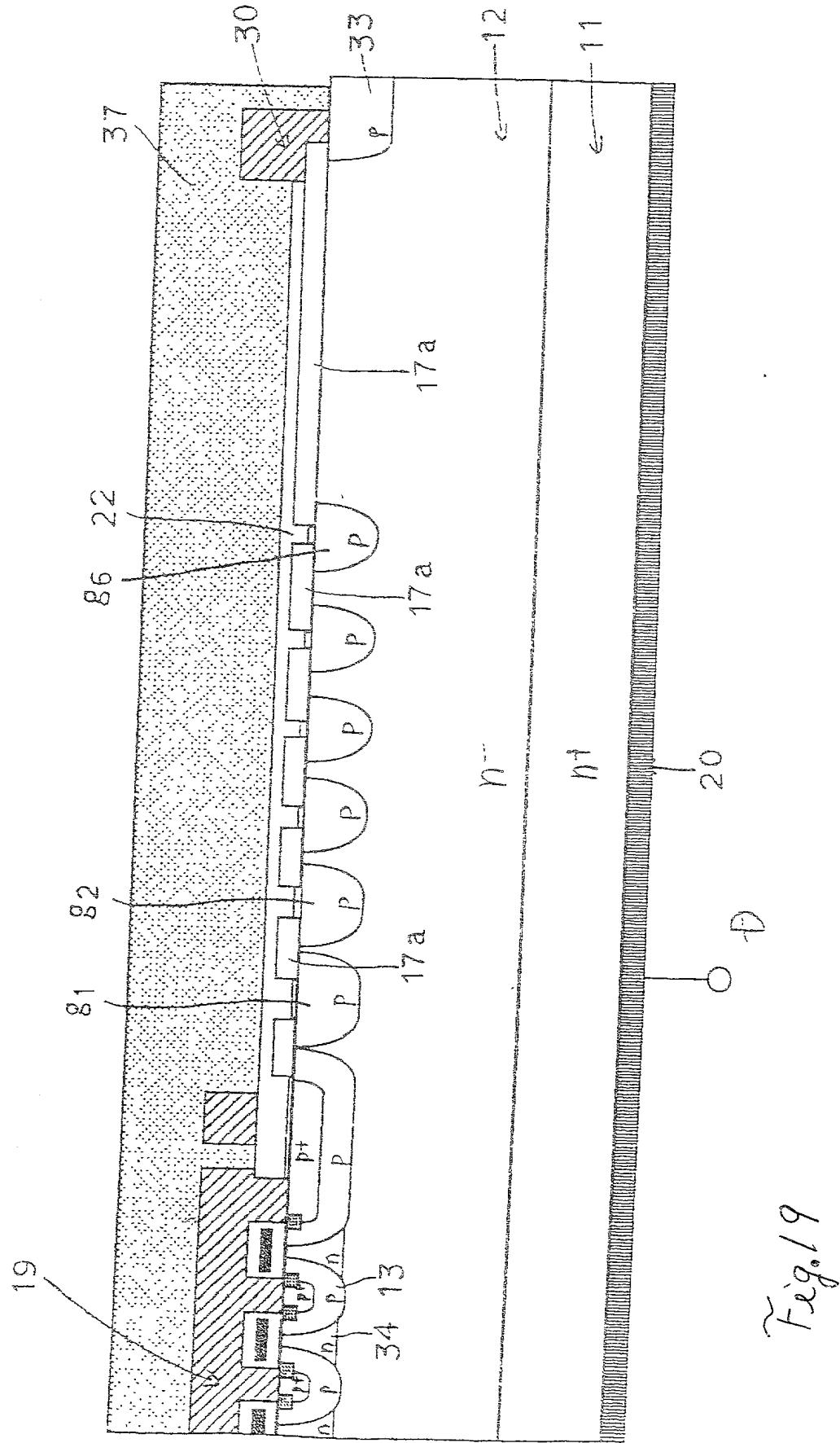
Fig. 17

[図 18]



[図 19]

Fig. 18



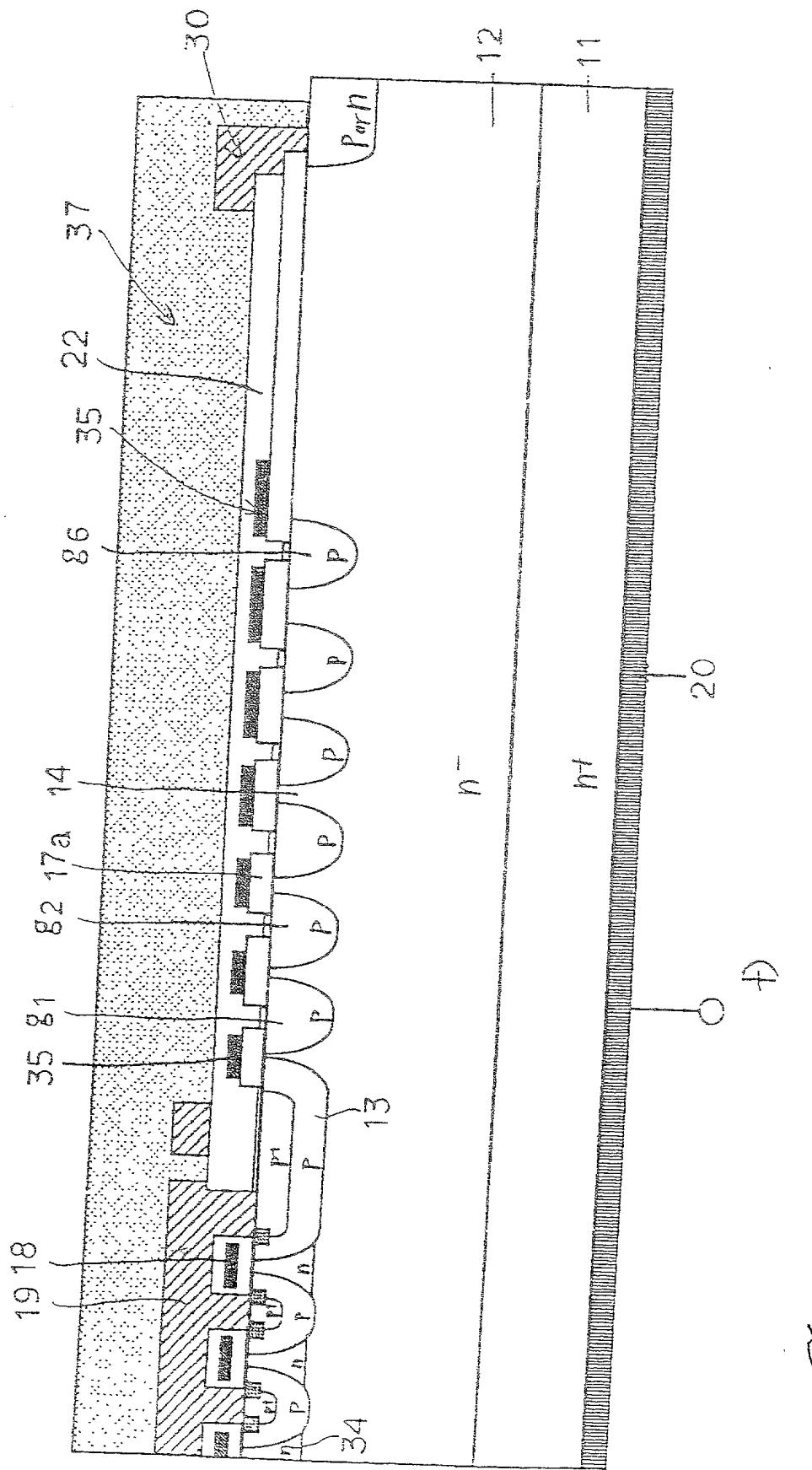


Fig. 20

図21

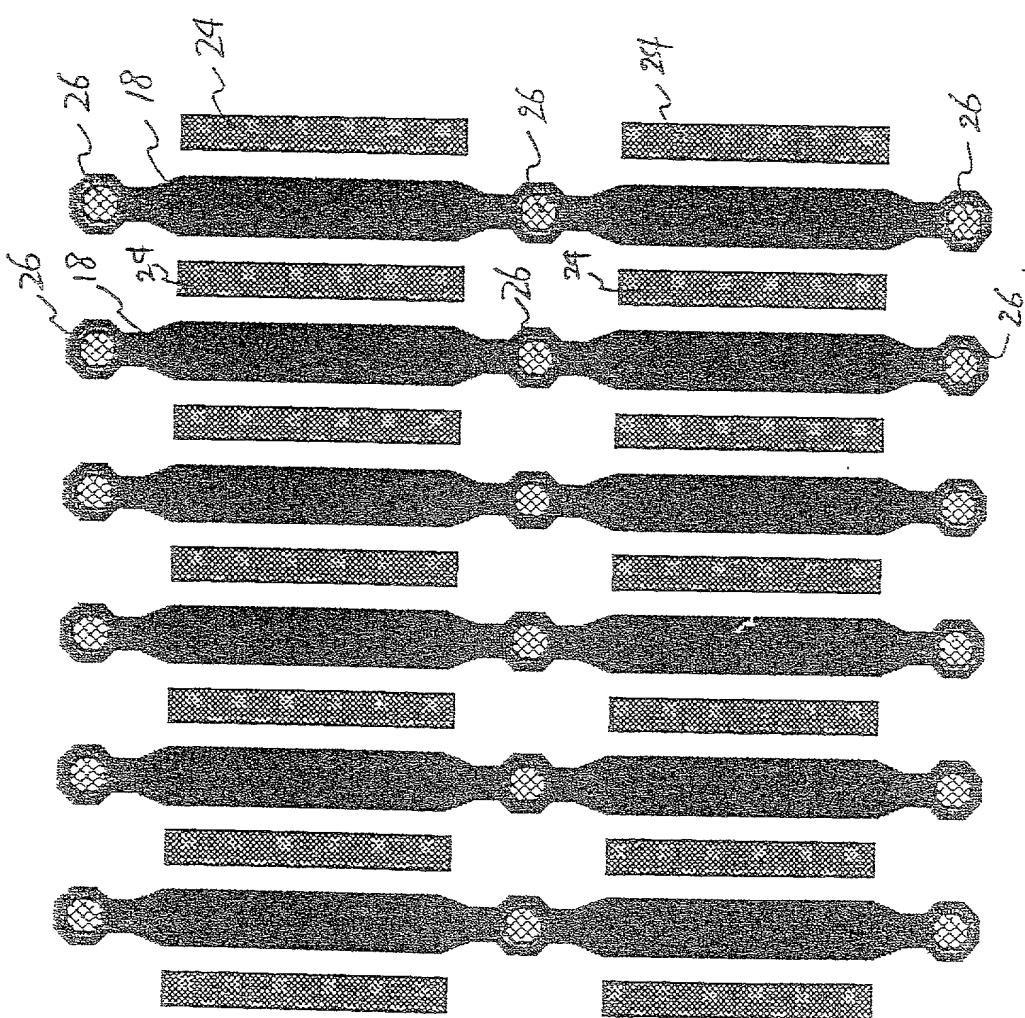


Fig. 21

図22

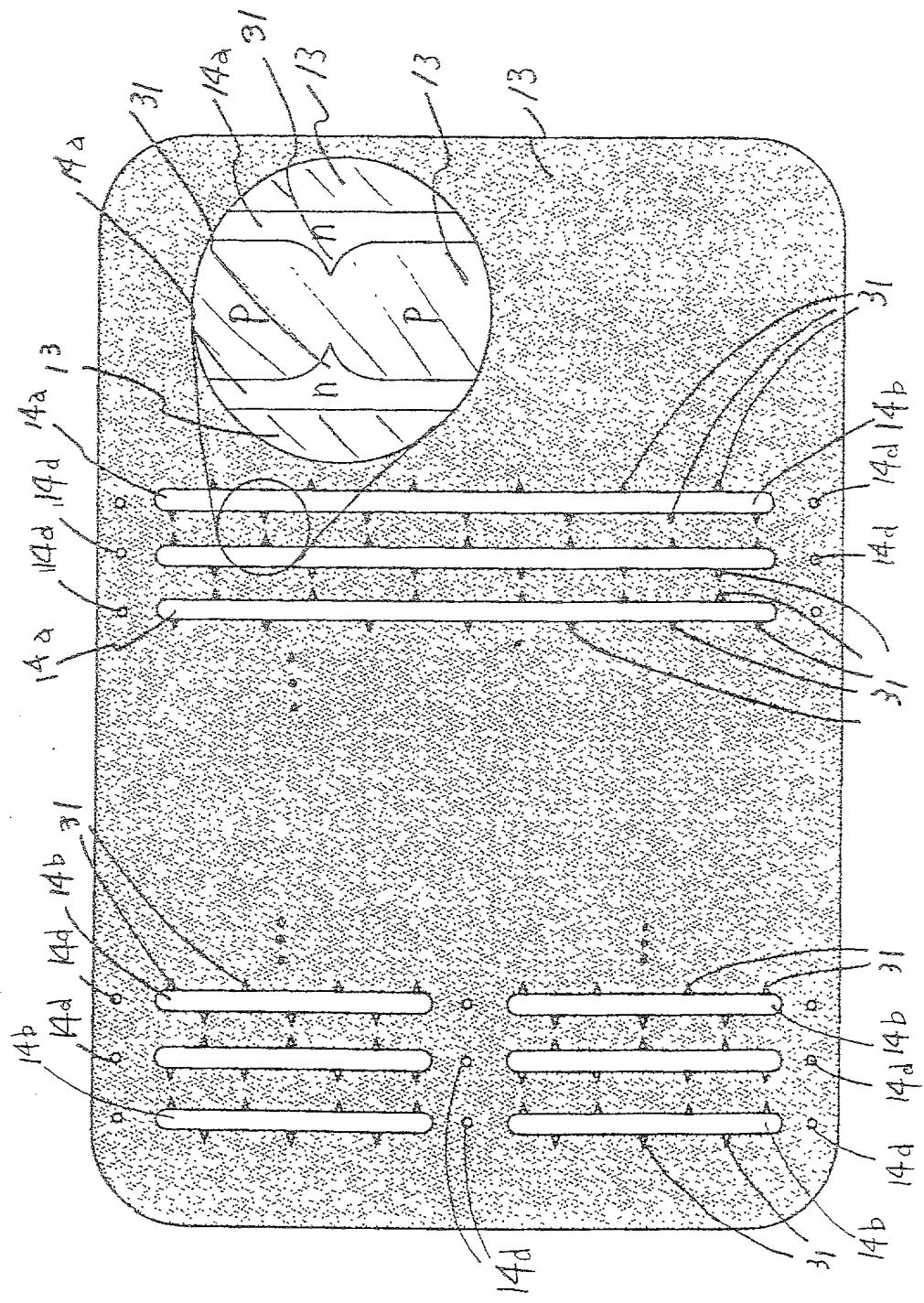


Fig. 22

図23

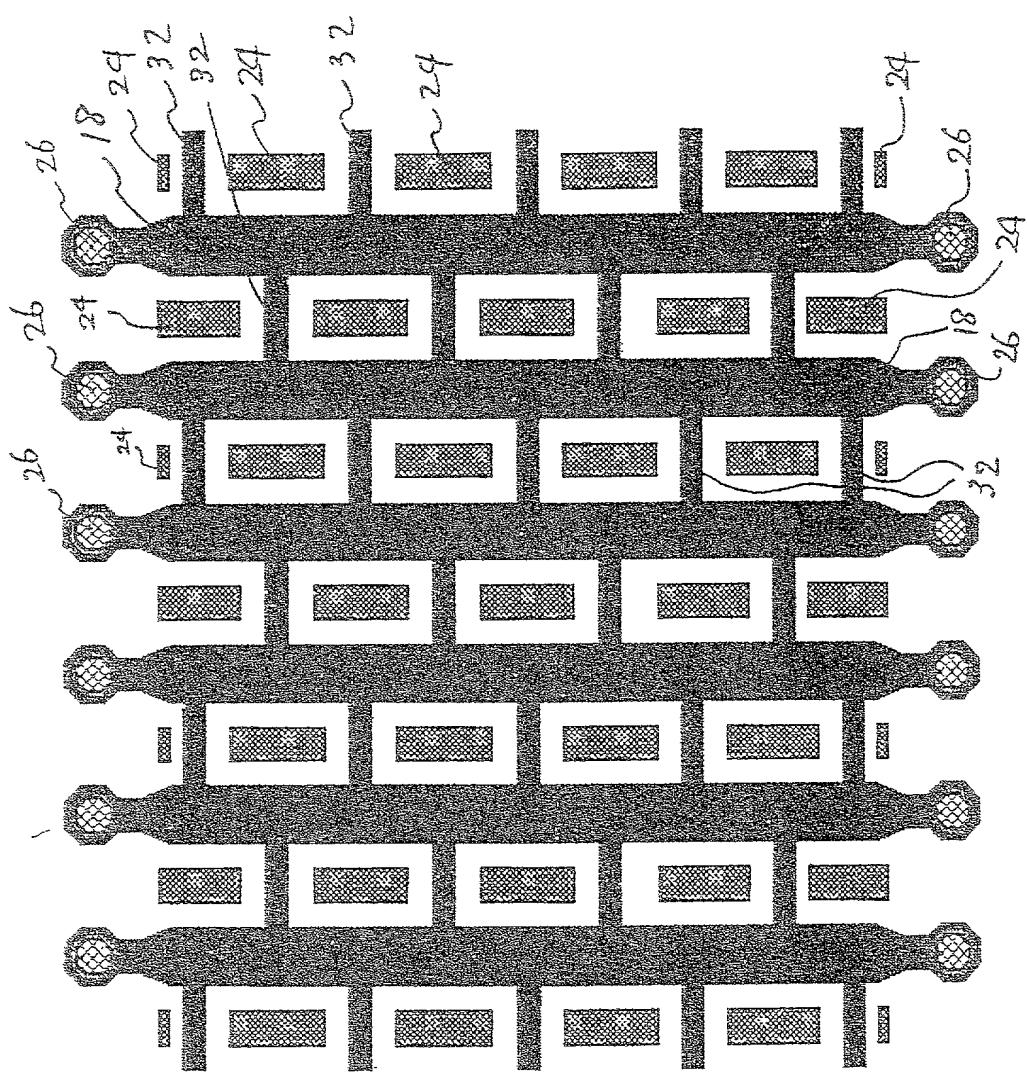


Fig. 23

[図24]

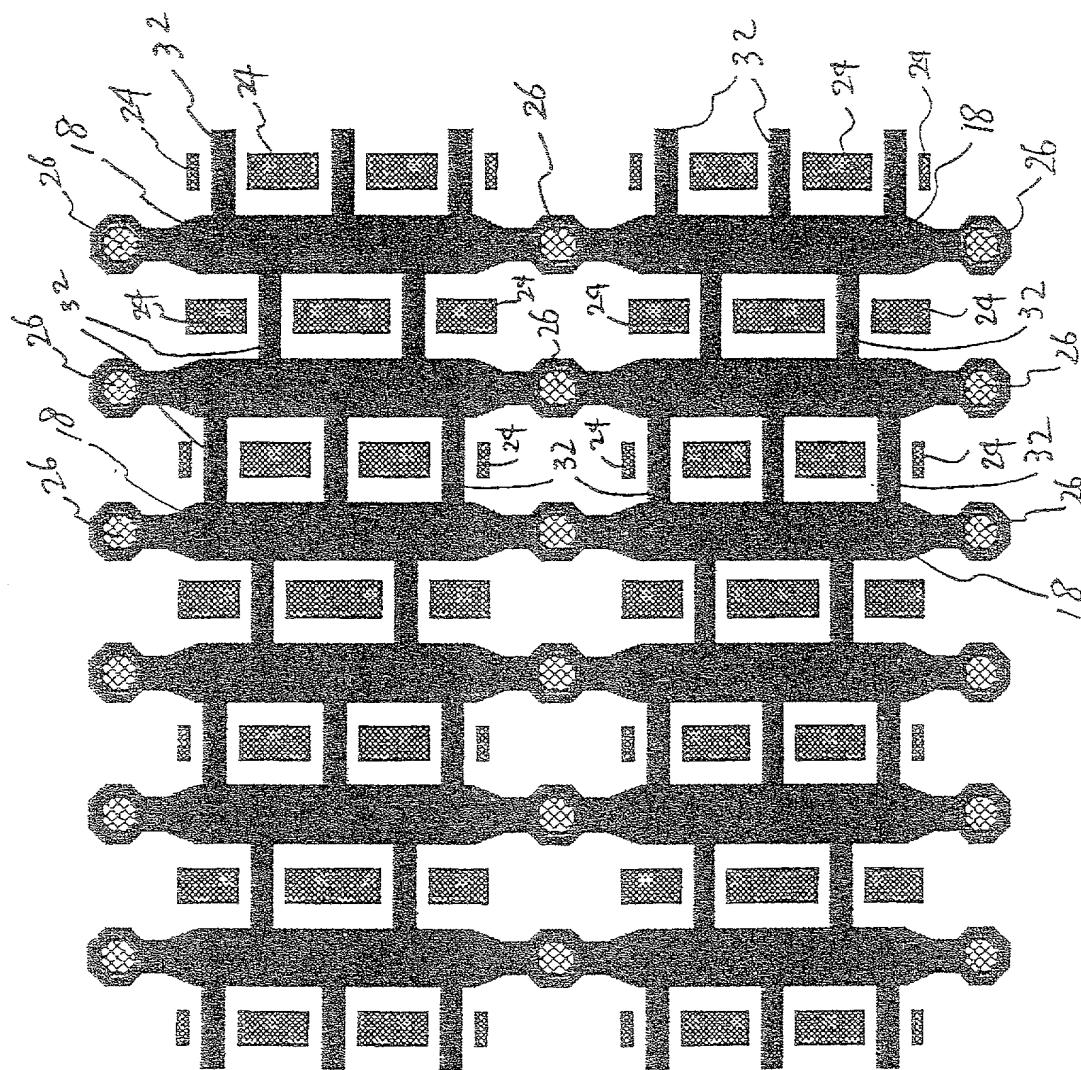


Fig. 24

図25

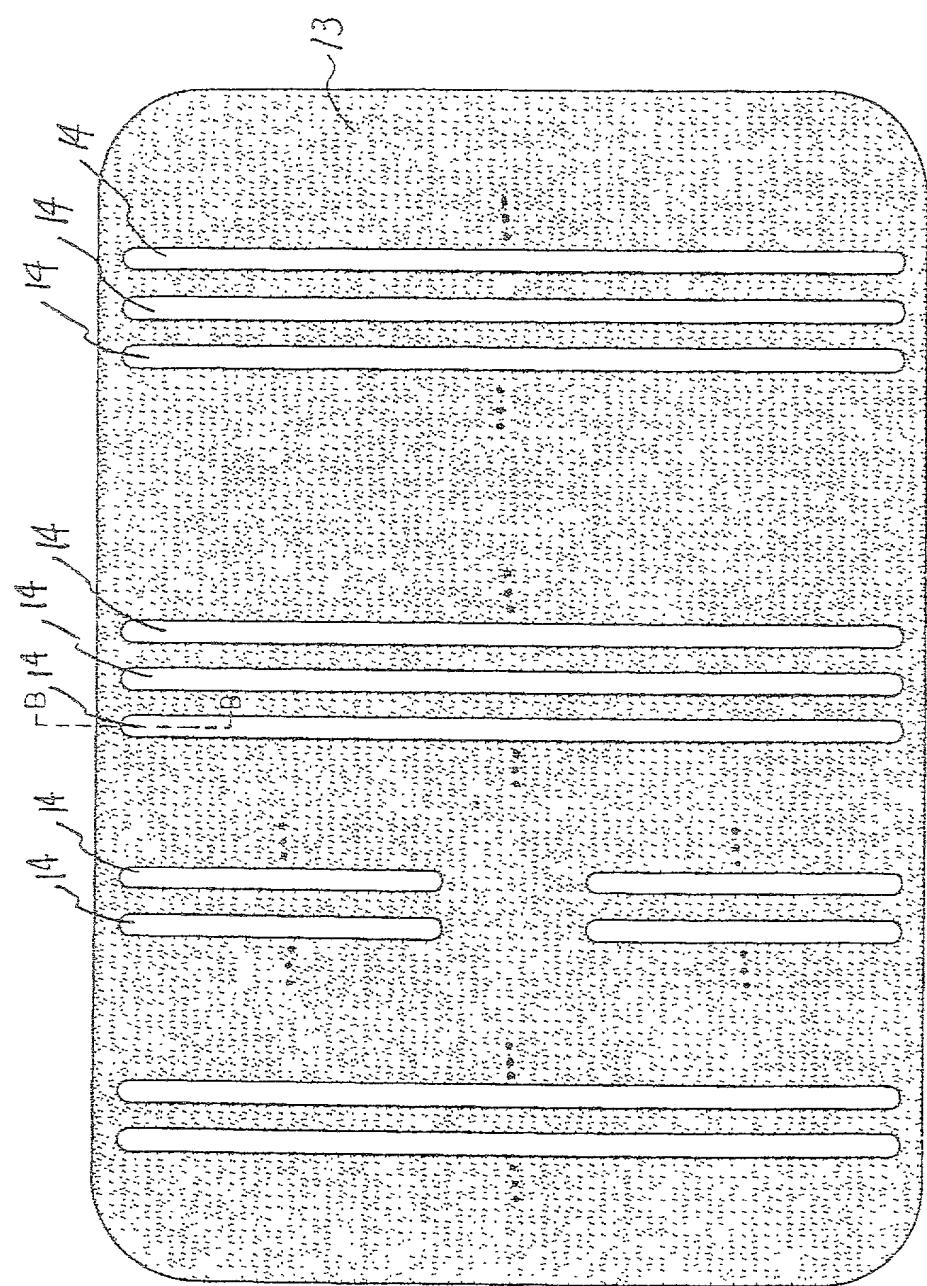


Fig. 25

図26

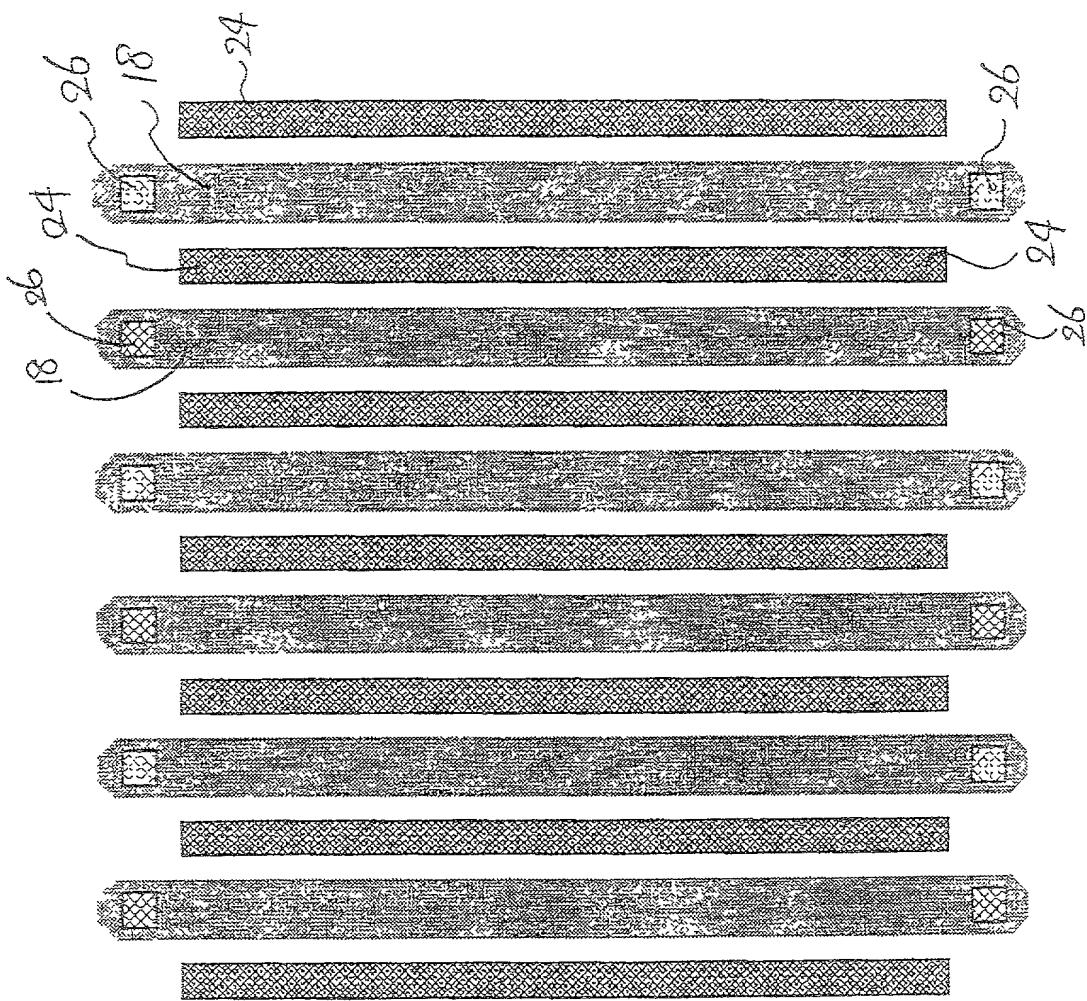


Fig. 26

【図 27】

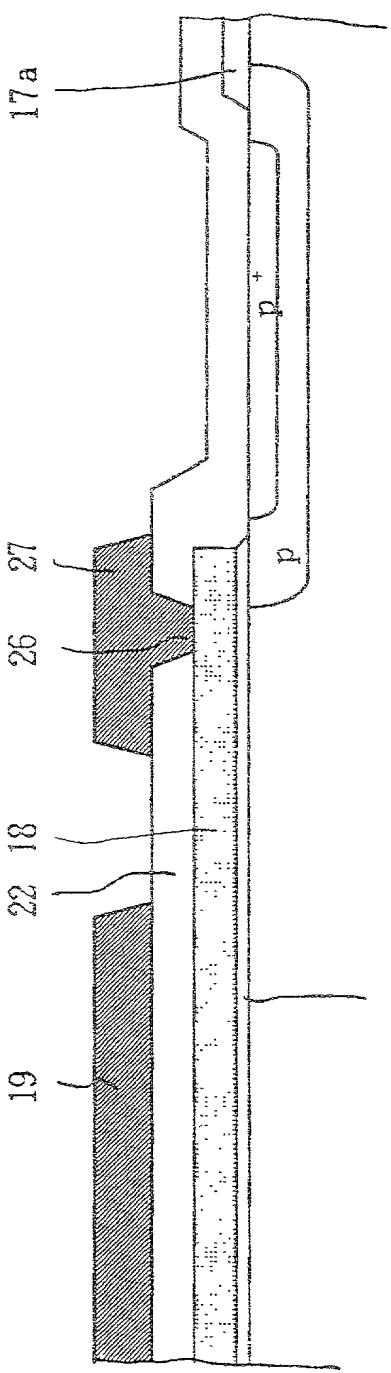


Fig. 27

[図28]

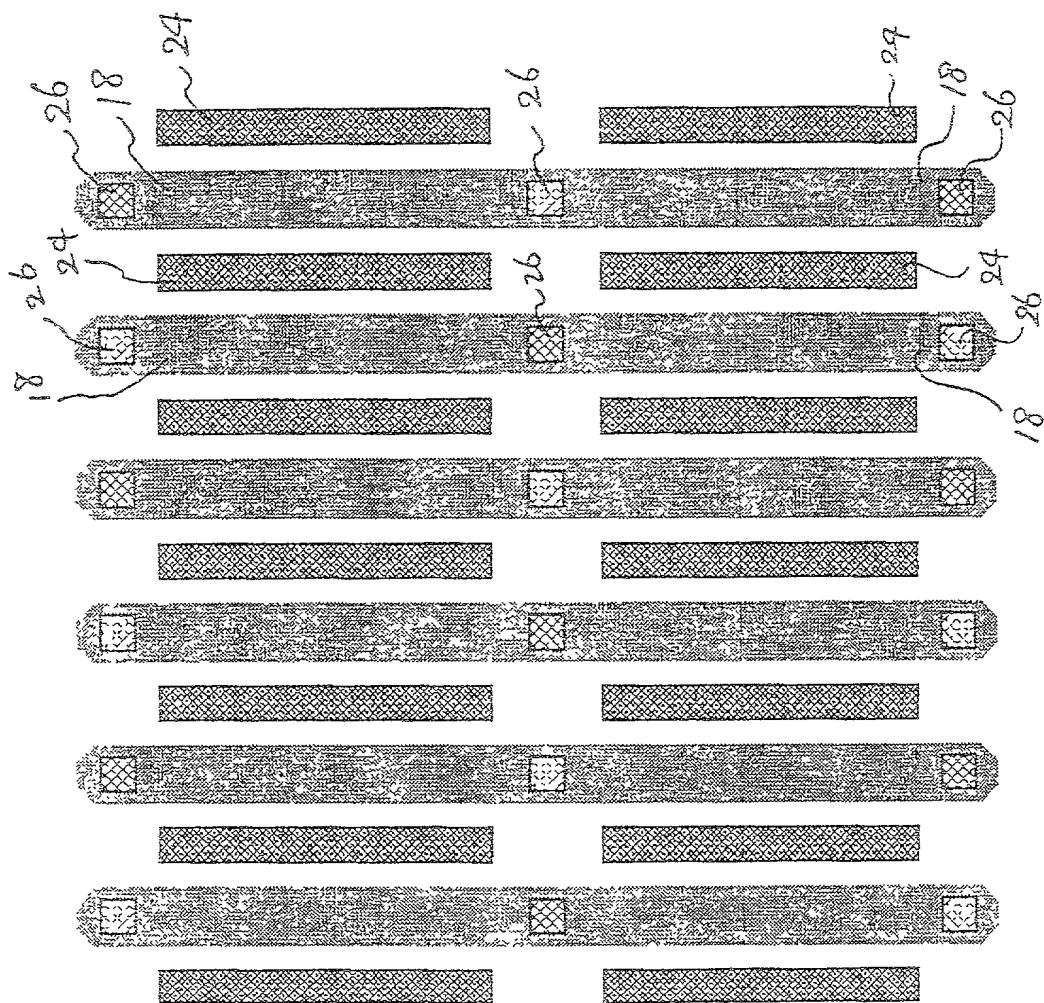


Fig. 28

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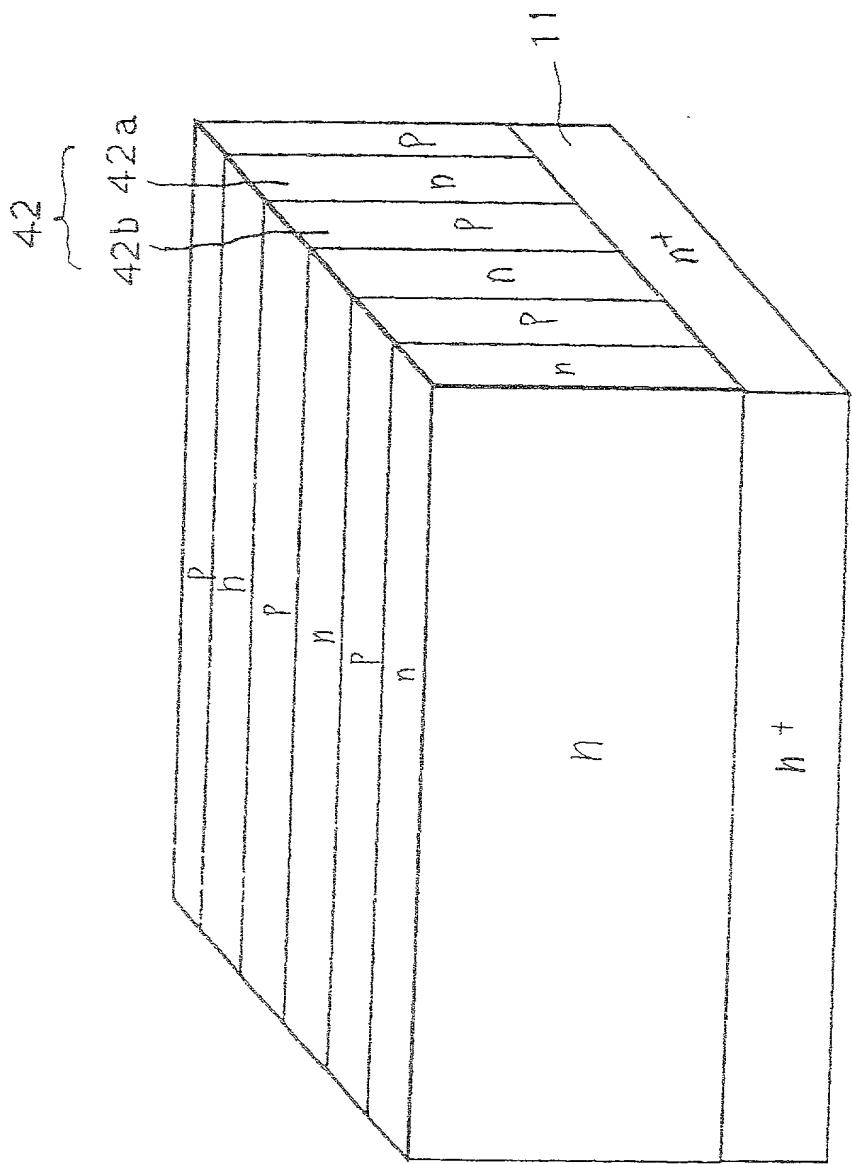


Fig. 29

[図30]

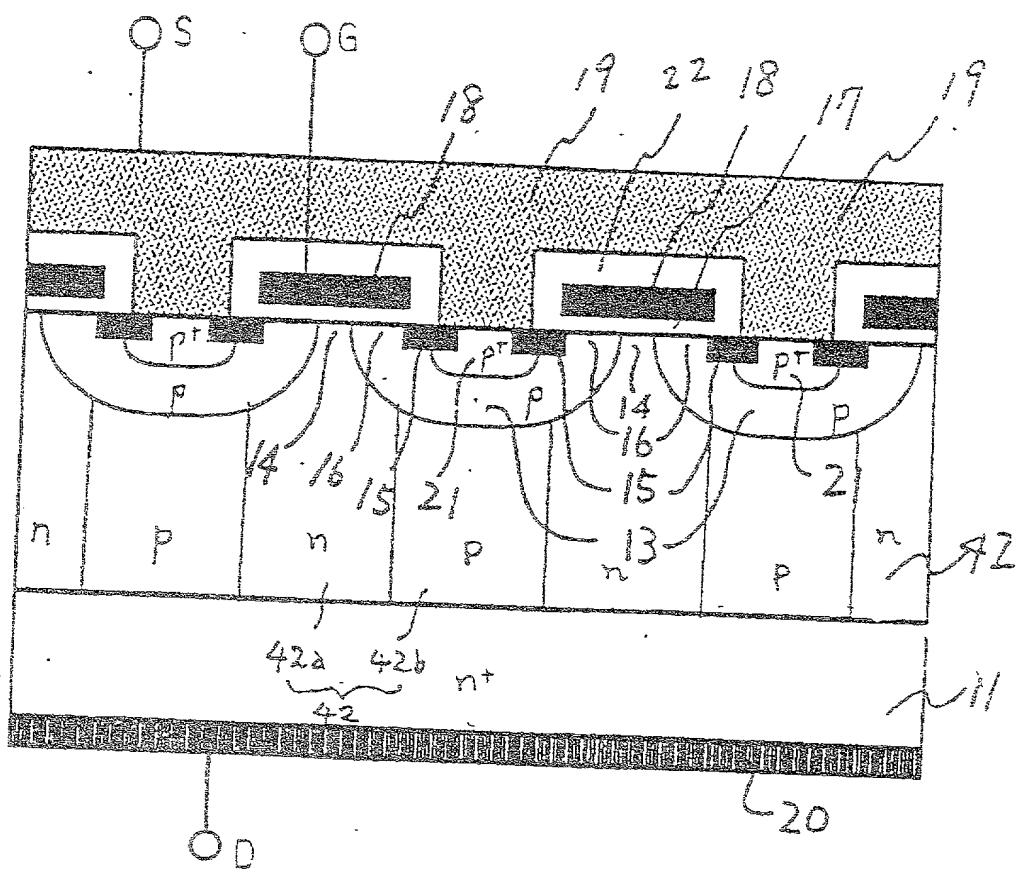


Fig. 30

[図3-1]

Fig. 3(a)

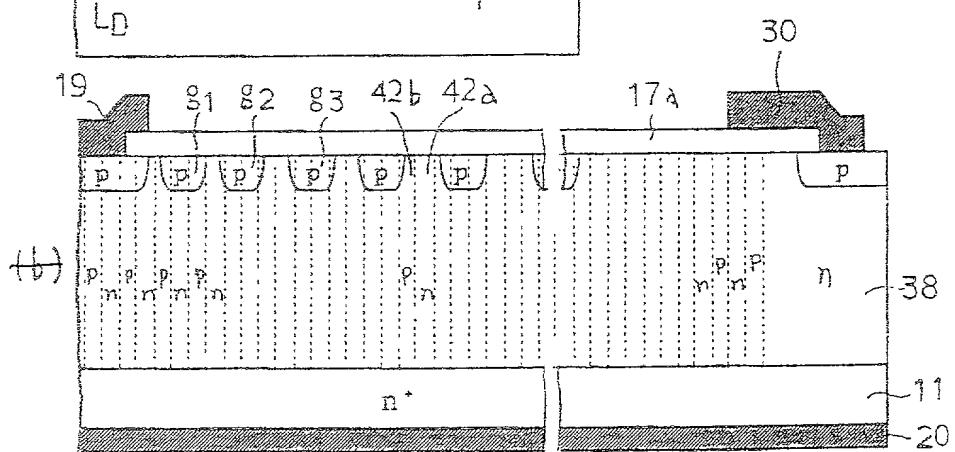
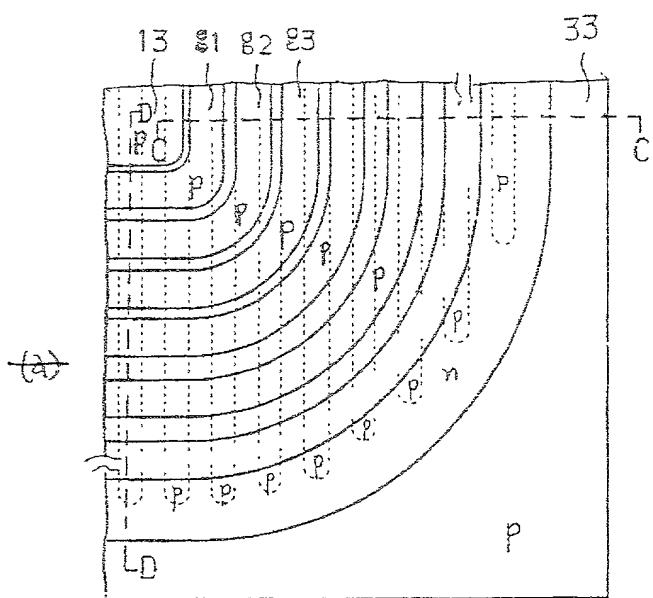


Fig. 3(b)

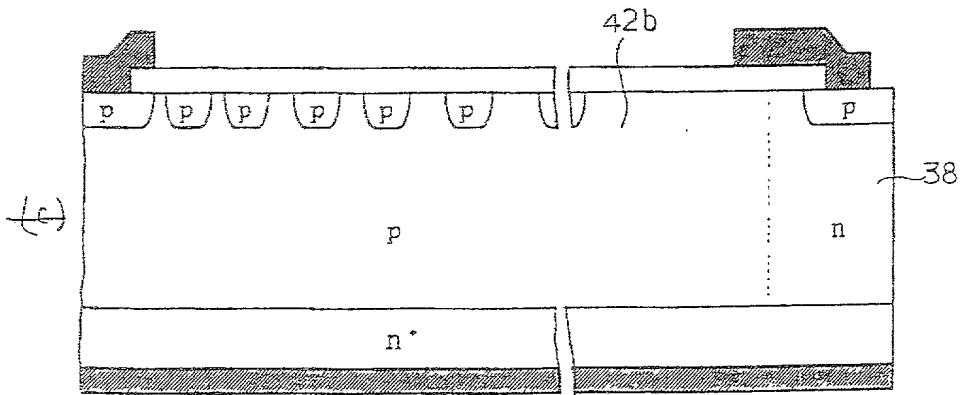


Fig. 3(c)

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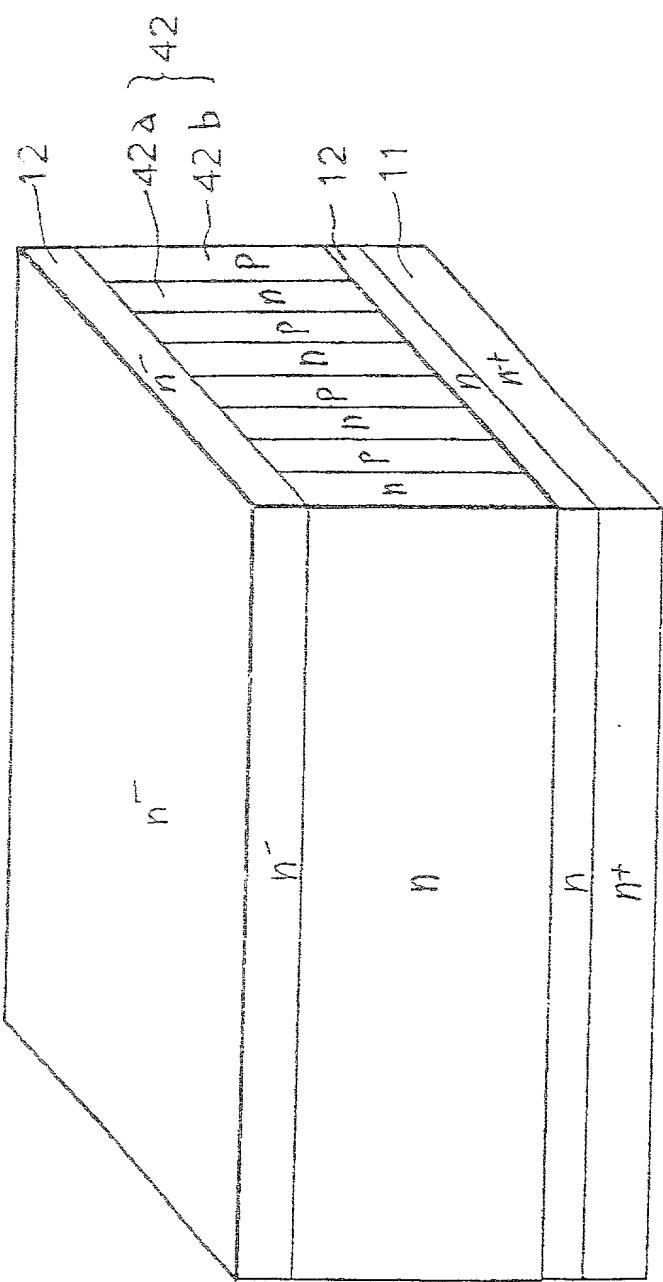


Fig. 32

図33

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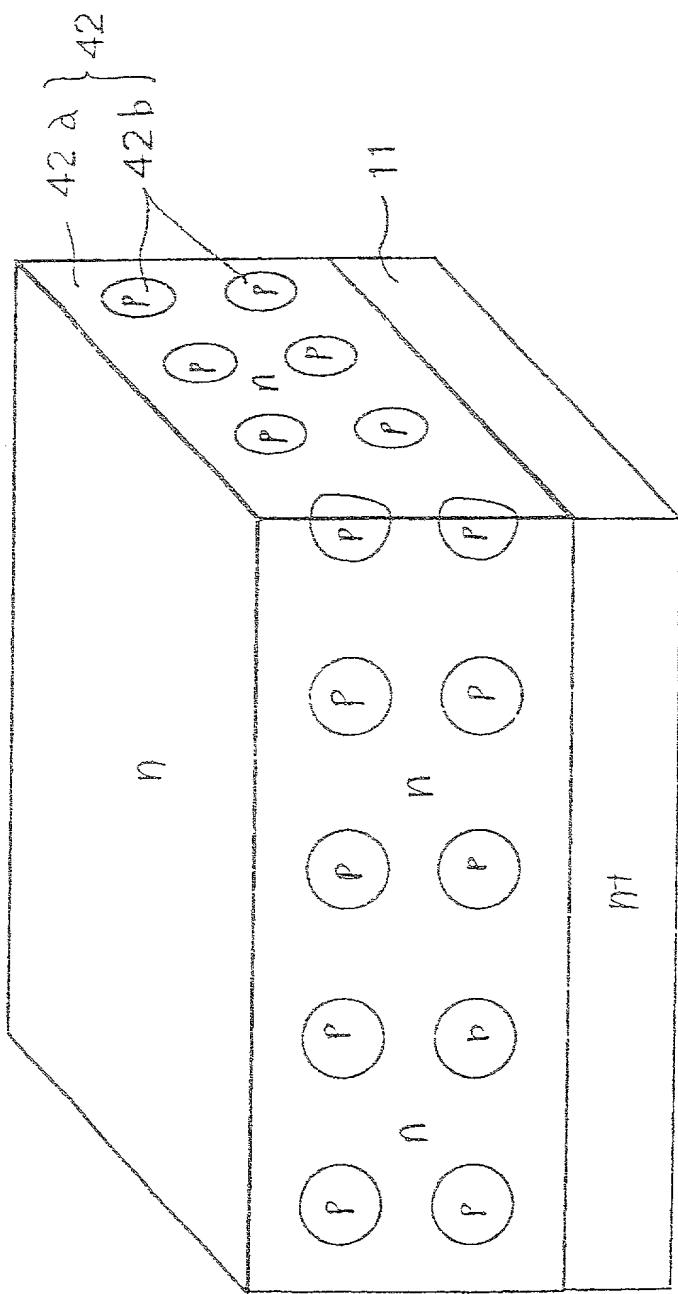


Fig. 33

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[受付日] 平13.06.12

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32/ 40

図 3-4

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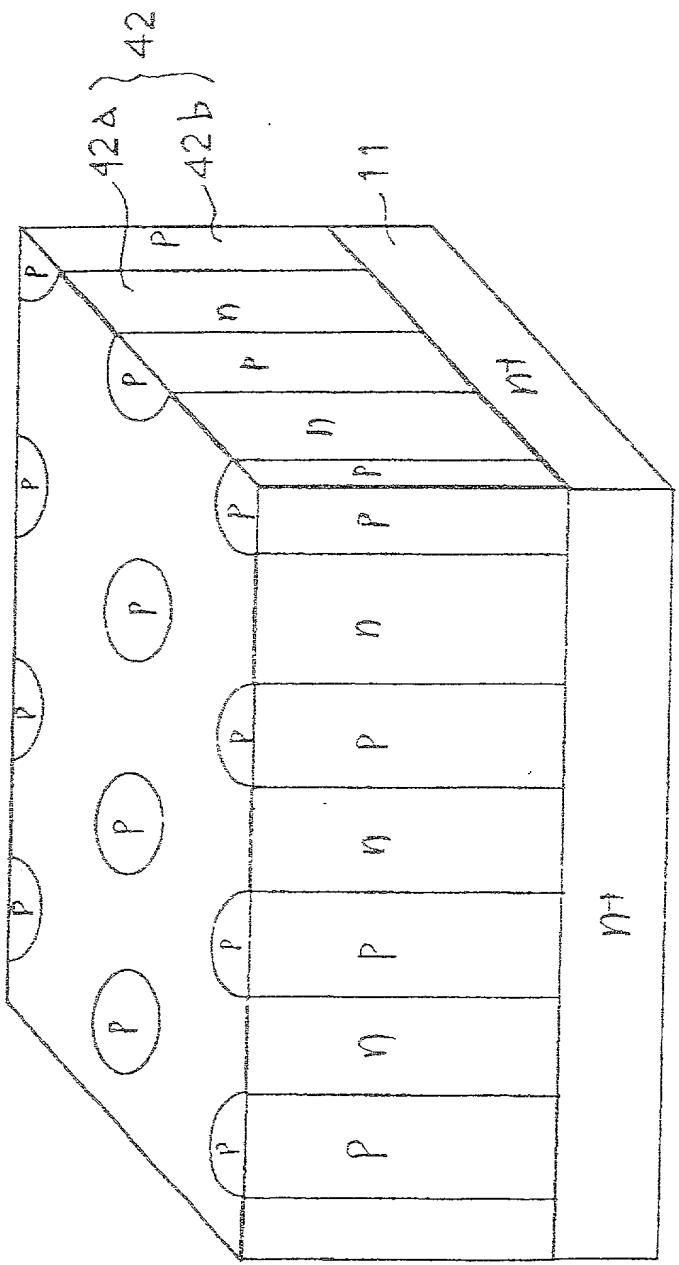


Fig. 34

[図3-5]

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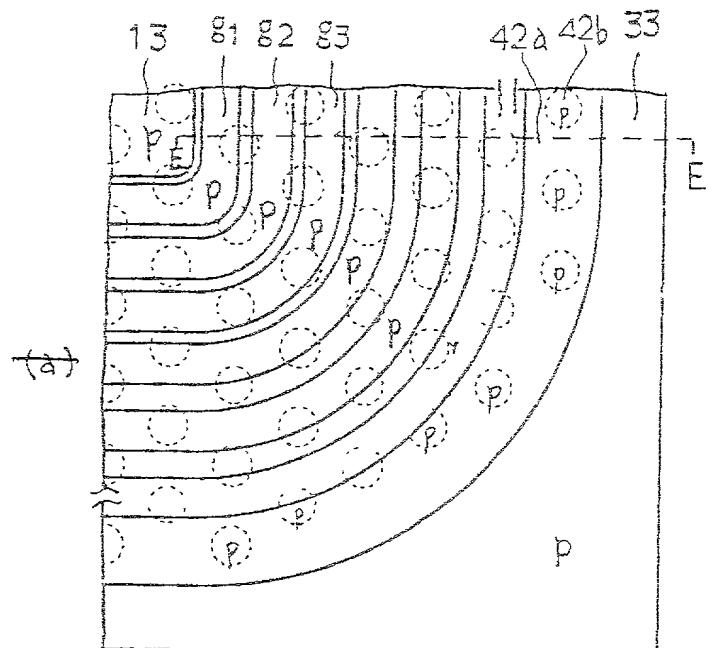


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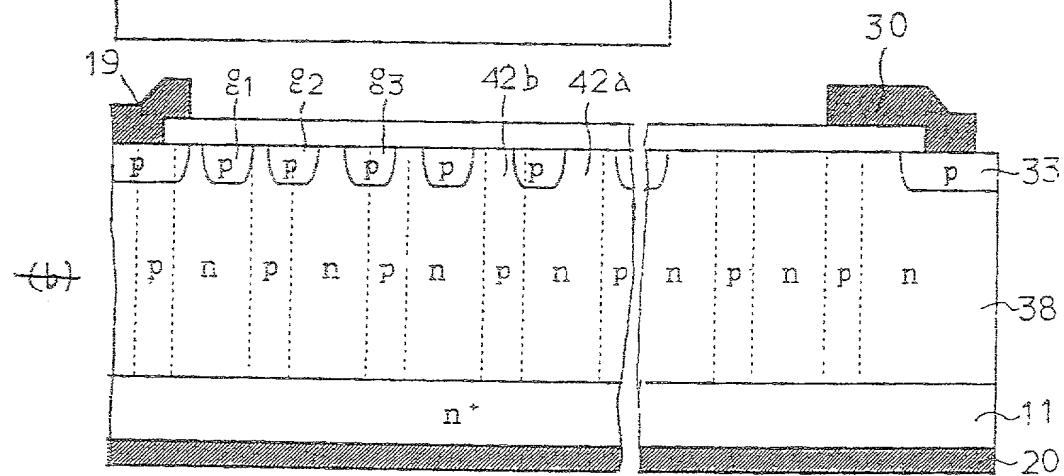
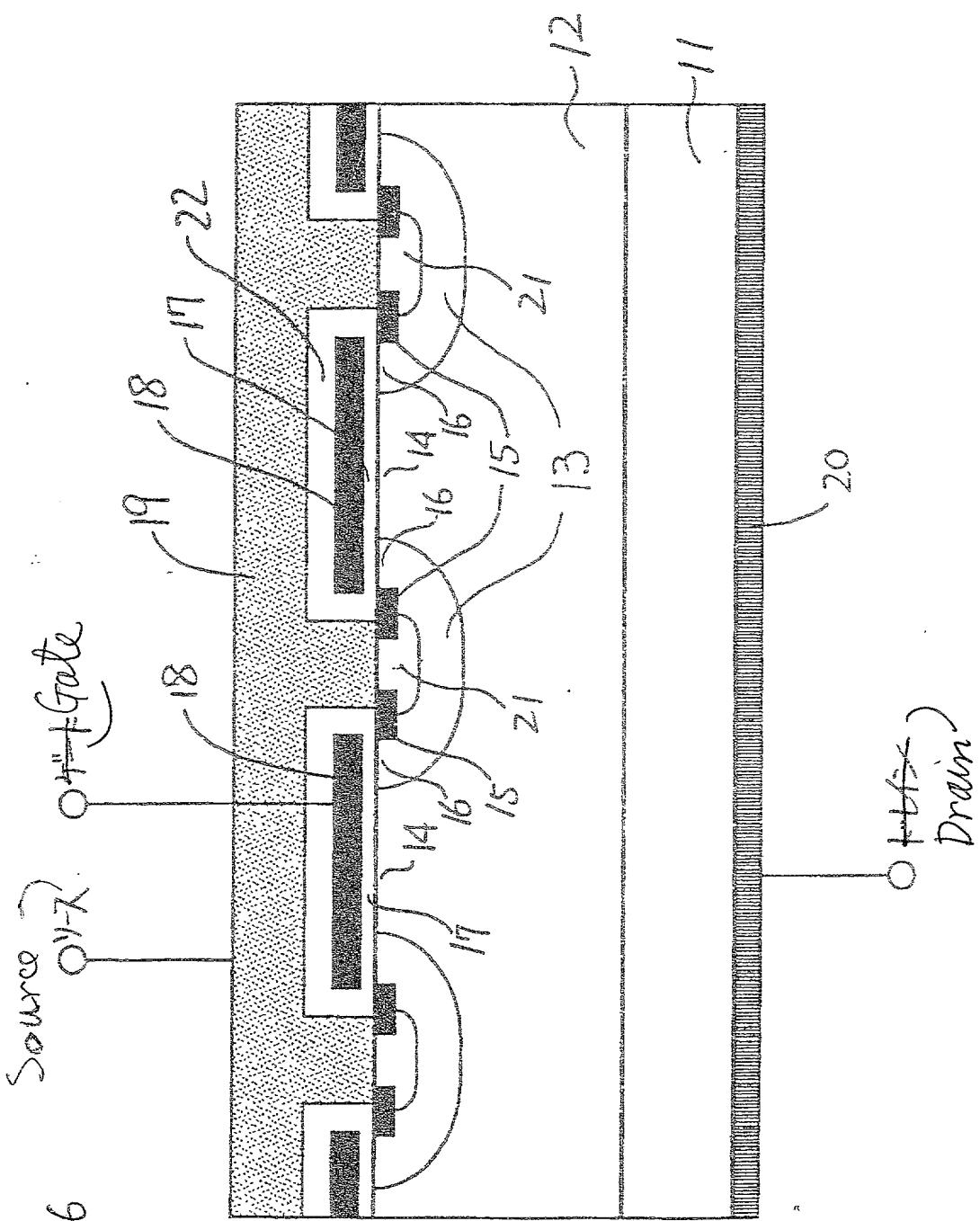


Fig. 35(b)

図36

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Date of Filing: June 12, H13(2001)

[書類名] 図面

[受付日] 平13.06.12

[特許] 2001-176500 (13.06.12)

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【図37】

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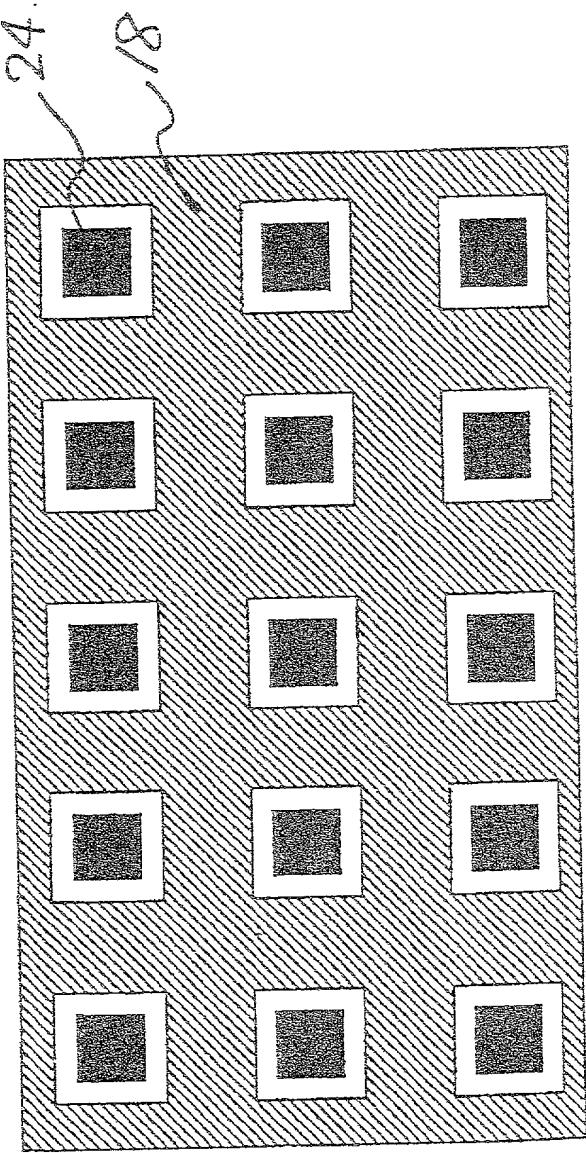


Fig. 37

[図38]

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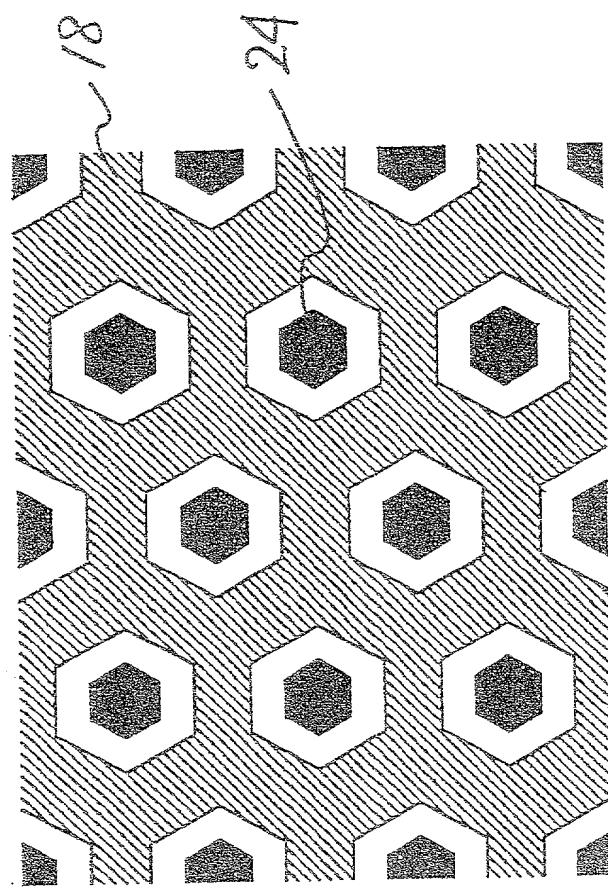


Fig. 38

Patent Appln. No.: 2001-176500

[書類名] 図面 Document Type: Drawing

[特許] 2001-176500 (13. 06. 12)

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[受付日] 平13. 06. 12

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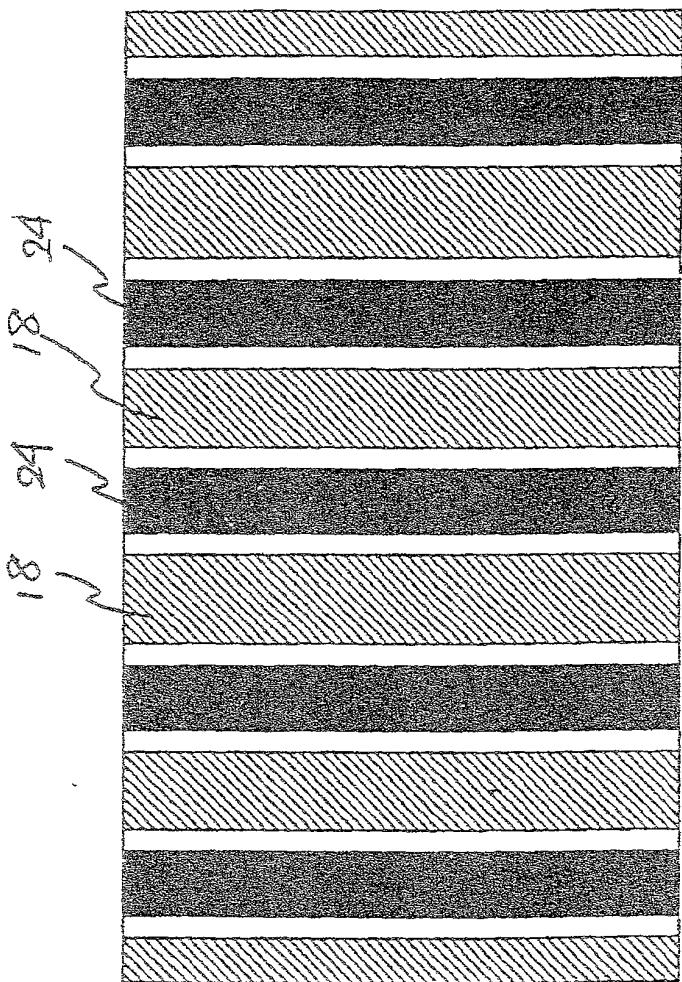


Fig. 39

図 40

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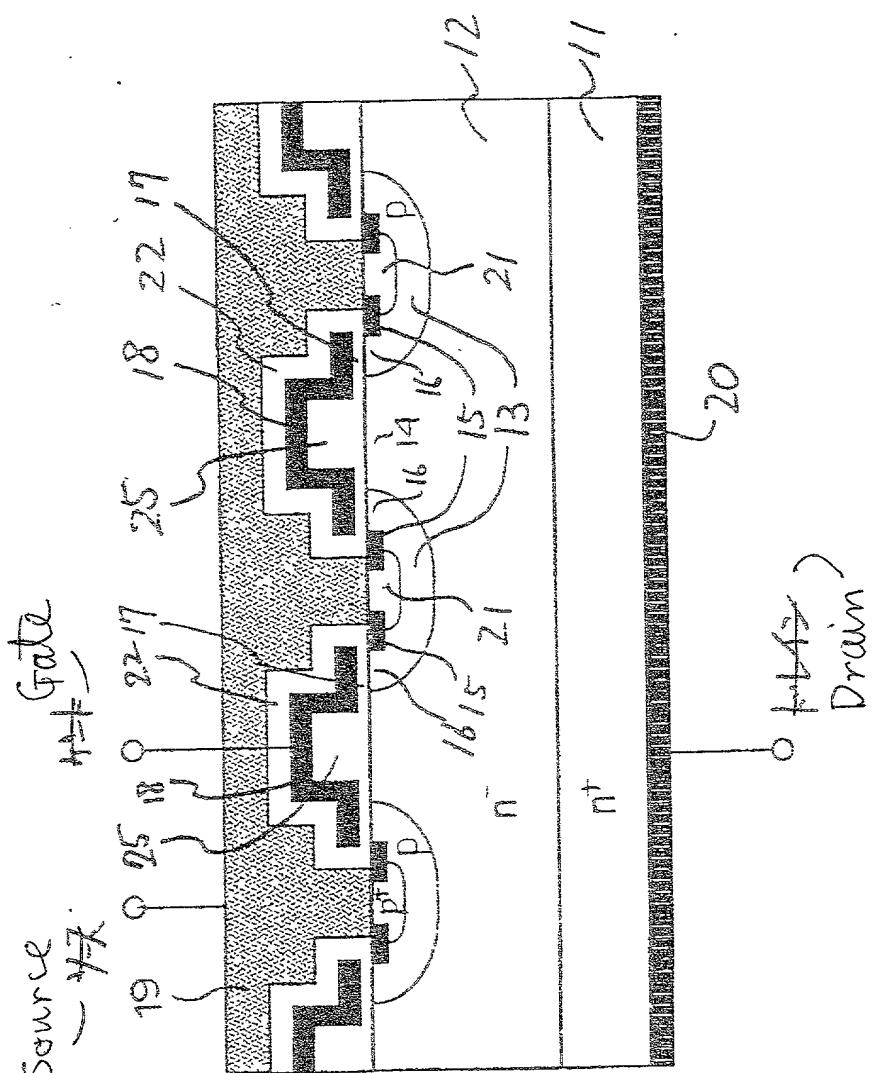


Fig. 40

図41

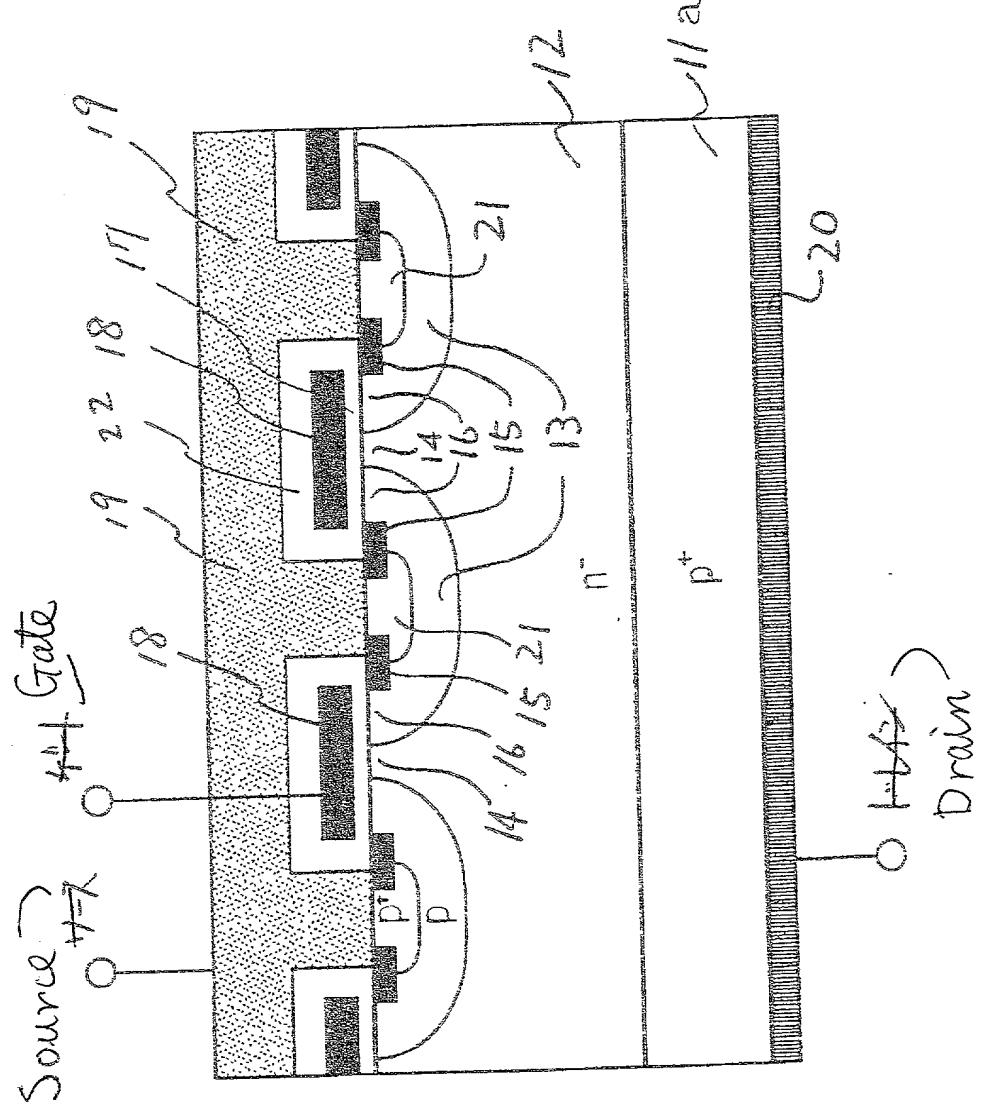


Fig. 41

[図42]

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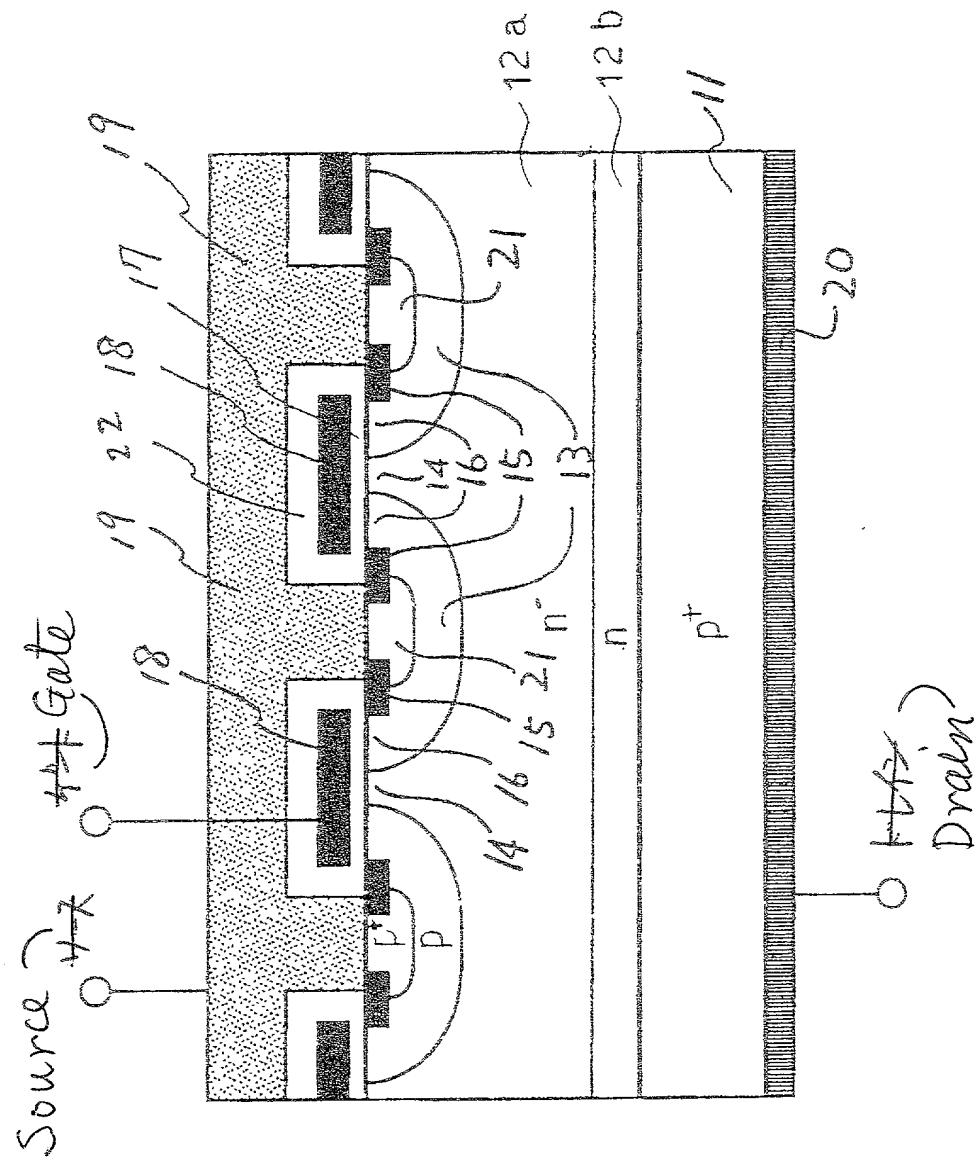


Fig. 42

[図43]

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Fig. 43

